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Today

Comprehensive Tech Por ...

Imagine you are top software architect, I need correct and perfect answer, CTO is asking:

1Java(Boot,JakartaEE, Hibernate, Maven, Gradle, JUnit, Micronaut, Quarkus, Vert.x, GraalVM, SLF4J,GraalVM(JIT+ Native-Image), Testcontainers6
Grafana, Swagger/OpenAPI, Flyway/Liquibase, WebFlux/Reactor)

2Multithreading (Threads (creation/management), Concurrency Primitives (locks, mutexes), Synchronization (critical sections), Race Conditions, Deadlocks, Semaphores, Atomic Operations, Thread Pools, Starvation, Producer-Consumer,Dining Philosophers, Sleeping Barber, GC tuning (G1/ZGC/Shenandoah)

3Python(Django, pytest,Flask, FastAPI, NumPy, Pandas, PyTorch, TensorFlow, Jupyter, Asyncio, Celery, SQLAlchemy, requests)

4Machine learning (Scikit-learn, TensorFlow, PyTorch, Keras, XGBoost, LightGBM, CatBoost, Transformers, Langchain,LangGraph & Langsmith, Kaggle, LLM, ONNX, JAX)

5AWS (EC2, S3, EKS (!!Kubernetes is MUST), Lambda, RDS, DynamoDB, Ec2, VPC, IAM, CloudFormation, CloudWatch, SNS/SQS, Bedrock, Sagemaker)

6DB (Oracle, MySQL, PostgreSQL, SQL Server, MongoDB, Redis, Cassandra, Elasticsearch, Snowflake, Neo4j, Pinecone, Weaviate, Milvus)

7Algorithms(Sorting, Searching, Graph, Dynamic Programming, Greedy, Divide-and-Conquer, Backtracking, String, Comp Geometry)

8Javascript (ES6+, Nextjs, TypeScript, Node.js, React, GraphQL, Vue.js, Angular, Express, Jest, Prisma/TypeORM, Playwright/Cypress, Webpack, Babel, Vite, Svelte)

9Web Design(HTML5, Bulma, Sass, Bootstrap, Tailwind CSS, Figma, Adobe XD, Sketch, Webflow)

10Security(Metasploit,Kali Linux,Burp Suite,nmap, wireshark,OWASP ZAP,Cryptography/Secure Communications,Malware Analysis, Web App Security)

11Devops(Jenkins, Github Actions, Docker, K8s, Ansible, Terraform, Prometheus, Grafana, Elk, GitLab CI/CD, Azure DevOps)

12C# (.NET 8, ASP.NET Core, Blazor, Entity fr., LINQ, MAUI, WPF, NUnit, SignalR, Grpc, xUnit, IdentityServer / ASP.NET Identity, Hangfire / Quartz.NET)

13GO (Goroutines, Channels, net/http, Gin, GORM or sqdb, Go Modules, gRPC, Docker, Testify)

14Rust (Cargo, Rustup, Crates.io, Tokio, WebAssembly, Actix, Rocket, Diesel, Serde)

15PHP (Laravel, Symfony, Composer, PHPUnit, Doctrine, Twig)

16Ruby (Rails, Sinatra, Hanami, Bundler, RSpec, RuboCop, Sidekiq, Capistrano)

17C++ (STL, Boost Libraries, RAII, Qt Framework, CUDA, Concurrency, Clang / GCC (compilers), CMake)

18C (GNU Compiler Collection), Clang/LLVM, Make/CMake, Valgrind, GDB (GNU Debugger), Embedded C, OpenMP , GTK)

19Flutter (Dart, Hot Reload, Widgets, Material Design, Cupertino, BLoC, Provider, Riverpod, FlutterFlow, firebase)

20Gamedev(Unity, Unreal Engine, Godot, CryEngine, GameMaker Studio, Cocos2d-x, Blender, Substance Painter, Photon Networking)

21Video (processing, optimizing and another video algor, ffmpeg, opencv)

22Compilers (Compilers/Translator design, Language theory, Parsing theory, LLVM, JIT/AOT techniques, static analysis, type systems)

23Bigdata+ETL (Spark, Kafka, Hive/Trino, Flink, Airflow, dbt, NiFi, Snowflake, Databricks, AWS Glue, BigQuery, Beam)

24Blockchain(Solidity, Python, Rust, Web3.js, SHA-256, Truffle, IPFS, Hardhat, OpenZeppelin, Ganache, Ethers.js, Ethereum blockchain, Hyperledger Fabric DLT framework, Proof-of-Work (PoW) consensus mechanism, Merkle Trees data structure, Trezor hardware wallet security, MythX smart contract auditing tool, Consensus (PoW, PoS, PBFT implementations))

25GIS (ArcGIS, QGIS, PostGIS, Mapbox, Leaflet, GeoServer, GDAL, OpenLayers, Cesium, Coordinate systems, GeoJSON, spatial indexing (R-tree), Shapefile (.shp))

26Finance (Loan Origination & Servicing, Credit-Scoring Models, Risk Management & VaR, Portfolio Optimization, Market Prediction/Time-Series Forecasting, Algorithmic Trading, Derivatives Pricing, Asset Allocation & Rebalancing, Treasury/Liquidity Management)

27Assembly(CPU Architecture (x86, ARM, Registers, Instruction Set (Opcodes), Assembler (NASM, MASM), Machine Code (Binary), Memory Addressing, System Calls (Interrupts), Linker)

28Medicine (FHIR (Fast Healthcare Interoperability Resources), AlphaFold, CRISPR-Cas9, DICOM (Digital Imaging/Communications in Medicine))

29Kotlin (Android SDK, Jetpack Compose, Gradle, Retrofit, Coroutines, Room, Firebase, Ktor)

IMPORTANT!: if you provide project - provide full stack of project (not only related to item), for example if you provide webportal in java topic - provide also front end part

Provide 4 projects (2 big, 2 medium) for each of the 29 items. For each project: Tech Stack(List in one line), Short Tech Description(Min. 2 sentences), Business Logic: (Min. 2 sentences)

Notes: For general topics (AWS, security, medicine, finance), any stack is fine (Java/JS/Python/C# preferred) Brackets in stacks are main points, feel free to add other tools/frameworks. Use simplest formatting

P.S1 Answer in general would be no more than 50k tokens, try to provide answer in one shot

P.S2 machine learning/deep learning should be at least in 2 projects in AWS topic

P.S3 In each topic at least 1 project (max 2) should contain ML/DL

P.S4 for each project notice IDE in which main part (or all can be implemented)

P.S5 USE TABULAR format (tables are clear)

P.S6 Provide also best way to DEPLOY project: platform and ci/cd tools (aws is preferable in at least 30% projects, but need much options and not only big providers..)



1. Java (Boot,JakartaEE, Hibernate, Maven, Gradle, JUnit, Micronaut, Quarkus, Vert.x, GraalVM, SLF4J,GraalVM(JIT+ Native-Image), Testcontainers, Grafana, Swagger/OpenAPI, Flyway/Liquibase, WebFlux/Reactor)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Real-time Analytics Platform	Spring Boot, Jakarta EE, Hibernate, Maven, JUnit, Quarkus, Vert.x, GraalVM, SLF4J, Testcontainers, Grafana, Swagger/OpenAPI, Flyway, WebFlux, React, Docker, Kubernetes, AWS EKS, Prometheus	A real-time analytics platform processing high-volume data streams using Java microservices architecture with reactive programming. The platform leverages GraalVM for native image compilation to optimize performance and reduce memory footprint.	The platform ingests data from multiple sources, processes it in real-time using reactive streams, stores results in time-series databases, and provides visualization dashboards. It supports custom analytics pipelines and alerting systems based on threshold conditions.	IntelliJ IDEA Ultimate	AWS EK: GitHub / Prometheus Grafana
E-commerce Platform	Spring Boot, Jakarta EE, Hibernate, Gradle, JUnit, Micronaut, Quarkus, SLF4J, Testcontainers, Swagger/OpenAPI, Liquibase, WebFlux, React, Docker, Kubernetes, AWS RDS, AWS S3	A full-featured e-commerce platform with microservices architecture, utilizing both traditional Spring Boot and modern Quarkus frameworks. The platform implements reactive programming for better scalability and uses GraalVM for container optimization.	The platform handles product catalog management, order processing, payment gateway integration, inventory tracking, and customer relationship management. It includes recommendation engine based on user behavior and purchase history.	Eclipse with Spring Tools Suite	AWS EK: infrastructure GitHub / AWS RD AWS S3
Task Management System	Spring Boot, Jakarta EE, Hibernate, Maven, JUnit, Vert.x, SLF4J, Swagger/OpenAPI, Flyway, Thymeleaf, Docker, MySQL	A collaborative task management system with real-time notifications and team collaboration features. The system uses Vert.x for event-driven architecture and provides RESTful APIs with comprehensive API documentation.	Users can create projects, assign tasks, set deadlines, and track progress through various views. The system includes time tracking, resource allocation, and reporting features for project managers.	VS Code with Java extensions	DigitalOcean with Docker for CI/CD
Health Monitoring System	Spring Boot, Jakarta EE, Hibernate, Gradle, JUnit, Micronaut, SLF4J, Testcontainers, Swagger/OpenAPI, Liquibase, WebFlux, React, Docker, PostgreSQL	A health monitoring system for collecting and analyzing patient vital signs with real-time alerts. The system uses reactive programming for handling high-frequency data streams and provides secure API access for healthcare providers.	The system collects data from IoT devices, analyzes trends, and generates alerts for critical conditions. It maintains patient records, treatment history, and provides insights for healthcare professionals.	IntelliJ IDEA Community Edition	Heroku Actions

2. Multithreading (Threads (creation/management), Concurrency Primitives (locks, mutexes), Synchronization (critical sections), Race Conditions, Deadlocks, Semaphores, Atomic Operations, Thread Pools, Starvation, Producer-Consumer,Dining Philosophers, Sleeping Barber, GC tuning (G1/ZGC/Shenandoah))

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
High-Frequency Trading Platform	Java, Java Concurrency utilities, C++, Python, Kafka, Redis, Docker, Kubernetes, AWS, gRPC, Netty, Log4j, JMH for benchmarking	A high-frequency trading platform optimized for low-latency order execution with sophisticated thread management and garbage collection tuning. The platform implements custom thread pools and lock-free algorithms for maximum performance.	The platform processes market data, executes trading strategies, and manages order books with microsecond precision. It includes risk management, position tracking, and real-time performance analytics.	IntelliJ IDEA Ultimate for Java, Visual Studio Code for C++	AWS Far JVM for CI/CD monitor
Distributed Video Processing Pipeline	Java, Java Concurrency utilities, Python, Apache Kafka, Docker, Kubernetes, AWS, OpenCV, FFmpeg, Log4j, JMH for benchmarking	A distributed video processing pipeline that leverages multi-threading for parallel video encoding and analysis. The system implements producer-consumer patterns and custom thread pools optimized for video processing workloads.	The pipeline ingests video streams, processes them in parallel for encoding, transcoding, and analysis, and outputs processed videos to various formats. It includes quality control, metadata extraction, and content moderation features.	IntelliJ IDEA Ultimate for Java, PyCharm for Python	AWS EK: GitHub / AWS S3
Real-time Chat Application	Java, Java Concurrency utilities, Node.js, Socket.io, Docker, Kubernetes, Redis, MongoDB, Log4j	A real-time chat application with thread-safe message delivery and offline message handling. The application implements producer-consumer patterns for message queuing and uses thread pools for handling concurrent connections.	Users can create chat rooms, send messages, share files, and participate in group conversations. The application includes message encryption, read receipts, and typing indicators.	IntelliJ IDEA Community Edition for Java, VS Code for Node.js	DigitalOcean with Docker for CI/CD
Parallel Data Processing System	Java, Java Concurrency utilities, Apache Spark, Docker, Kubernetes, AWS, Log4j, JMH for benchmarking	A parallel data processing system that implements various concurrency patterns for efficient data transformation and analysis. The system uses custom thread pools and atomic operations for thread-safe data processing.	The system processes large datasets in parallel, performing transformations, aggregations, and analyses. It includes data validation, error handling, and result visualization features.	IntelliJ IDEA Community Edition for Java	AWS EMR tuning, CI/CD

3. Python (Django, pytest, Flask, FastAPI, NumPy, Pandas, PyTorch, TensorFlow, Jupyter, Asyncio, Celery, SQLAlchemy, requests)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
AI-Powered Content Management System	Django, FastAPI, PyTorch, TensorFlow, NumPy, Pandas, Jupyter, Asyncio, Celery, SQLAlchemy, React, Docker, Kubernetes, AWS S3, AWS RDS, Elasticsearch	An AI-powered content management system with natural language processing capabilities and automated content generation. The system uses deep learning models for content analysis, recommendation, and generation.	The platform allows users to create, manage, and publish content with AI assistance for writing, editing, and optimization. It includes content personalization, SEO optimization, and performance analytics.	PyCharm Professional, VS Code	AWS EK: GitHub / AWS RD AWS S3
Financial Data Analysis Platform	FastAPI, Pandas, NumPy, PyTorch, TensorFlow, Jupyter, Asyncio, Celery, SQLAlchemy, React, Docker, Kubernetes, AWS, Redis, Apache Kafka	A financial data analysis platform with real-time market data processing and predictive analytics capabilities. The platform uses machine learning models for market prediction and risk assessment.	The platform ingests financial data from multiple sources, processes it in real-time, and provides insights for trading decisions. It includes portfolio optimization tools, risk management features, and automated trading strategies.	PyCharm Professional, VS Code	AWS Lambda instance CI/CD, Amazon PostgreSQL storage
E-commerce Recommendation Engine	FastAPI, Pandas, NumPy, PyTorch, SQLAlchemy, React, Docker, Kubernetes, Redis, PostgreSQL	A recommendation engine for e-commerce platforms using collaborative filtering and deep learning techniques. The system processes user behavior data to generate personalized product recommendations.	The engine analyzes user browsing and purchase history to recommend relevant products. It includes A/B testing capabilities, real-time updates, and integration with e-commerce platforms.	PyCharm Community Edition, VS Code	Heroku Actions
Health Data Tracker	Django, Pandas, NumPy, JavaScript, Angular, Gatsby	A health data tracking application for health monitoring.	Users can input health data, track progress, and receive notifications.	PyCharm Community Edition, VS Code	DigitalOcean with Docker for CI/CD

	Jupyter, AsyncIO, Celery, SQLAlchemy, React, Docker, PostgreSQL.	An application with visualization and trend analysis capabilities. The application processes health metrics from various sources and provides insights for users and healthcare providers.	track progress over time, and set goals. The application includes trend analysis, reminders, and the ability to share data with healthcare providers.	VS Code	with D&D for CI/CI
4. Machine Learning (Scikit-learn, TensorFlow, PyTorch, Keras, XGBoost, LightGBM, CatBoost, Transformers, Langchain, LangGraph & Langsmith, Kaggle, LLM, ONNX, JAX)					
PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
LLM-Powered Customer Support System	Python, PyTorch, Transformers, Langchain, LangGraph, Langsmith, FastAPI, React, Docker, Kubernetes, AWS SageMaker, AWS Bedrock, Elasticsearch, Redis	An advanced customer support system powered by large language models with multi-turn conversations and context awareness. The system uses fine-tuned transformer models for understanding and responding to customer queries.	The system handles customer inquiries, provides support for common issues, and escalates complex cases to human agents. It includes ticket management, sentiment analysis, and knowledge base integration.	PyCharm Professional, VS Code	AWS EKS, GitHub / AWS S3, deployment for addl. capabilities
Medical Image Analysis Platform	Python, PyTorch, TensorFlow, ONNX, FastAPI, React, Docker, Kubernetes, AWS SageMaker, AWS S3, DICOM processing libraries, MONAI	A medical image analysis platform using deep learning for disease detection and diagnosis assistance. The platform processes medical images with state-of-the-art computer vision models.	The platform analyzes medical images (X-rays, CT scans, MRIs) to detect abnormalities and provide diagnostic suggestions. It includes radiologist assistance tools, case management, and reporting features.	PyCharm Professional, VS Code	AWS EKS, GitHub / AWS S3, deployment image st
Personalized Recommendation Engine	Python, Scikit-learn, TensorFlow, FastAPI, React, Docker, PostgreSQL, Redis, Apache Kafka	A personalized recommendation engine using collaborative filtering and deep learning techniques. The system processes user behavior data to generate personalized recommendations.	The engine analyzes user interactions with content to recommend relevant items. It includes real-time updates, A/B testing capabilities, and integration with various content platforms.	PyCharm Community Edition, VS Code	Heroku / Actions
Sentiment Analysis Dashboard	Python, Scikit-learn, Transformers, FastAPI, React, Docker, PostgreSQL, Elasticsearch	A sentiment analysis dashboard that processes text data from various sources to determine sentiment trends. The system uses both traditional machine learning and transformer-based models.	The dashboard analyzes customer feedback, social media mentions, and reviews to provide sentiment insights. It includes trend visualization, alerting, and reporting features.	PyCharm Community Edition, VS Code	DigitalOcean with D&D for CI/CI
5. AWS (EC2, S3, EKS, Lambda, RDS, DynamoDB, Ec2, VPC, IAM, CloudFormation, CloudWatch, SNS/SQS, Bedrock, Sagemaker)					
PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Cloud-Native E-commerce Platform	AWS (EKS, Lambda, RDS, DynamoDB, S3, CloudFormation, CloudWatch, SNS/SQS, Bedrock), React, Node.js, Python, Docker, Kubernetes, Terraform	A fully cloud-native e-commerce platform leveraging AWS services for scalability, resilience, and cost optimization. The architecture uses serverless components for event-driven processing and container orchestration for microservices.	The platform handles product catalog, order processing, payment processing, inventory management, and customer accounts. It includes AI-powered product recommendations using AWS Bedrock and real-time analytics using AWS Kinesis.	VS Code, IntelliJ IDEA Ultimate	AWS EKS infrastructure, GitHub / AWS CI/CD infrastructure
IoT Data Processing Pipeline	AWS (IoT Core, Kinesis, Lambda, S3, DynamoDB, Glue, Redshift, CloudFormation, CloudWatch, SNS/SQS, Sagemaker), Python, Docker, Kubernetes, Terraform	An IoT data processing pipeline that ingests, processes, and analyzes data from connected devices at scale. The pipeline uses serverless architecture for cost-effective processing and machine learning for anomaly detection.	The pipeline collects telemetry data from IoT devices, processes it in real-time, stores it for historical analysis, and triggers alerts based on predefined conditions. It includes predictive maintenance capabilities using AWS Sagemaker.	PyCharm Professional, VS Code	AWS IoT architected for CI/CI infrastructure
Serverless Document Processing Service	AWS (Lambda, S3, Textract, Comprehend, DynamoDB, CloudFormation, CloudWatch, SNS/SQS), React, Node.js, Python, Terraform	A serverless document processing service that extracts and analyzes information from various document types. The service leverages AWS AI services for intelligent document processing and analysis.	Users upload documents which are automatically processed to extract text, entities, and key information. The service supports document classification, data extraction, and content analysis with notifications upon completion.	VS Code, PyCharm Community Edition	AWS Lambda architected for CI/CI infrastructure
Cloud-Native Analytics Dashboard	AWS (EKS, S3, Redshift, QuickSight, CloudFormation, CloudWatch, SNS/SQS), React, Python, Docker, Kubernetes, Terraform	A cloud-native analytics dashboard that visualizes data from multiple sources with real-time updates. The dashboard leverages AWS analytics services for data processing and visualization.	The dashboard aggregates data from various sources, processes it for analysis, and provides interactive visualizations for business intelligence. It includes customizable reports, alerts, and data export capabilities.	VS Code, PyCharm Community Edition	AWS EKS infrastructure, GitHub /
6. DB (Oracle, MySQL, PostgreSQL, SQL Server, MongoDB, Redis, Cassandra, Elasticsearch, Snowflake, Neo4j, Pinecone, Weaviate, Milvus)					
PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Multi-Model Data Platform	PostgreSQL, MongoDB, Redis, Elasticsearch, Neo4j, Docker, Kubernetes, AWS, Spring Boot, Hibernate, Flyway, Grafana	A multi-model data platform supporting relational, document, graph, and time-series data models. The platform provides a unified API for accessing different data types and includes data synchronization capabilities.	The platform serves as a central data repository for various applications, handling transactional data, user profiles, relationships, and time-series metrics. It includes data governance features, backup/restore, and performance monitoring.	IntelliJ IDEA Ultimate, DBeaver	AWS EKS, GitHub / AWS RD, AWS DMS, MongoDB
Vector Database Search Platform	Pinecone, Weaviate, Milvus, Elasticsearch, PostgreSQL, Docker, Kubernetes, AWS, FastAPI, React, Python	A vector database search platform for similarity search and semantic analysis. The platform integrates multiple vector databases to provide different indexing strategies and search capabilities.	The platform allows users to store and query vector embeddings for applications like recommendation engines, similarity search, and semantic analysis. It includes data ingestion, vector indexing, and search APIs with performance optimization.	PyCharm Professional, VS Code	AWS EKS, GitHub / AWS S3
Time-Series Data Monitoring System	TimescaleDB (PostgreSQL extension), Redis, Grafana, Docker, Kubernetes, AWS, Spring Boot, Hibernate, Flyway	A time-series data monitoring system for collecting, storing, and visualizing metrics from various sources. The system uses TimescaleDB for efficient time-series data storage and Redis for caching frequently accessed data.	The system collects metrics from applications, infrastructure, and IoT devices, stores them for historical analysis, and provides visualization dashboards. It includes alerting based on threshold conditions and data retention policies.	IntelliJ IDEA Community Edition, DBeaver	DigitalOcean with D&D for CI/CI

Document Management System	MongoDB, Elasticsearch, Redis, Docker, Kubernetes, AWS, Node.js, Express, Mongoose	A document management system with full-text search capabilities and metadata indexing. The system uses MongoDB for document storage and Elasticsearch for efficient text search and indexing.	Users can upload, organize, and search documents with advanced search capabilities. The system includes version control, access control, and document metadata management features.	VS Code, MongoDB Compass	AWS EK, GitHub, AWS Do, Mongol
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7. Algorithms (Sorting, Searching, Graph, Dynamic Programming, Greedy, Divide-and-Conquer, Backtracking, String, Comp Geometry)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Route Optimization Platform	Java, C++, Python, Graph algorithms, Dijkstra, A*, TSP algorithms, Docker, Kubernetes, AWS, React, Spring Boot	A route optimization platform using advanced graph algorithms for solving complex routing problems. The platform implements multiple algorithms including Dijkstra, A*, and TSP solvers with optimization techniques.	The platform solves various routing problems including vehicle routing, delivery optimization, and network design. It includes real-time traffic integration, constraint handling, and multi-objective optimization capabilities.	IntelliJ IDEA Ultimate, Visual Studio Code	AWS EK, GitHub
Financial Trading Algorithms	Python, Java, C++, Algorithmic trading libraries, Backtesting frameworks, Docker, Kubernetes, AWS, React, FastAPI	A financial algorithmic trading platform implementing various trading strategies with backtesting capabilities. The platform includes technical analysis indicators, risk management algorithms, and portfolio optimization techniques.	The platform allows users to develop, test, and deploy trading strategies across multiple markets and instruments. It includes real-time market data processing, order execution, and performance analytics.	PyCharm Professional, VS Code, Visual Studio	AWS Far instance CI/CD
Text Search Engine	Java, Python, Search algorithms (inverted index, suffix tree), Docker, Kubernetes, AWS, React, Spring Boot	A text search engine implementing various search algorithms for efficient text retrieval. The engine includes inverted indexes, trie structures, and suffix trees for different search scenarios.	The engine provides fast text search capabilities with autocomplete, fuzzy search, and relevance ranking. It includes indexing, query processing, and result ranking features.	IntelliJ IDEA Community Edition, VS Code	Heroku Actions
Computational Geometry Platform	C++, Python, Computational geometry algorithms, Docker, Kubernetes, AWS, React, FastAPI	A computational geometry platform implementing algorithms for geometric problems. The platform includes algorithms for convex hulls, line intersection, polygon triangulation, and spatial indexing.	The platform provides tools for solving geometric problems in computer graphics, GIS, and CAD applications. It includes visualization capabilities and algorithm performance comparison features.	Visual Studio, PyCharm Community Edition	DigitalOcean with Docker for CI/CD

8. Javascript (ES6+, Nextjs, TypeScript, Node.js, React, GraphQL, Vue.js, Angular, Express, Jest, Prisma/TypeORM, Playwright/Cypress, Webpack, Babel, Vite, Svelte)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Full-Stack Social Media Platform	Next.js, TypeScript, Node.js, React, GraphQL, Apollo, Express, Prisma, PostgreSQL, Docker, Kubernetes, AWS, Webpack, Vite, Jest, Playwright	A full-stack social media platform with real-time features, content management, and user interaction capabilities. The platform uses modern JavaScript frameworks with TypeScript for type safety and GraphQL for efficient data fetching.	Users can create profiles, share content, interact with other users, and join communities. The platform includes content recommendation algorithms, real-time notifications, and content moderation features.	VS Code, WebStorm	AWS EK, GitHub, AWS RD
E-commerce Marketplace	Next.js, TypeScript, Node.js, React, GraphQL, Apollo, Express, Prisma, PostgreSQL, Docker, Kubernetes, AWS, Webpack, Vite, Jest, Cypress	A full-featured e-commerce marketplace with multi-vendor support, payment processing, and order management. The platform uses modern JavaScript frameworks with TypeScript for type safety and GraphQL for efficient data fetching.	The platform supports multiple sellers, product listings, shopping carts, payment processing, order fulfillment, and customer service. It includes seller analytics, inventory management, and marketing tools.	VS Code, WebStorm	AWS EK, GitHub, AWS RD, AWS Do, Mongol
Task Management Application	Next.js, TypeScript, React, GraphQL, Apollo, Express, Prisma, PostgreSQL, Docker, Vite, Jest, Playwright	A collaborative task management application with real-time updates and team collaboration features. The application uses modern JavaScript frameworks with TypeScript for type safety and GraphQL for efficient data fetching.	Users can create projects, assign tasks, set deadlines, and track progress through various views. The application includes time tracking, resource allocation, and reporting features for project managers.	VS Code	Heroku Actions
Blog Platform	Next.js, TypeScript, React, GraphQL, Apollo, Express, Prisma, PostgreSQL, Docker, Vite, Jest, Playwright	A modern blog platform with content management, SEO optimization, and reader engagement features. The platform uses modern JavaScript frameworks with TypeScript for type safety and GraphQL for efficient data fetching.	Authors can create, edit, and publish articles with rich formatting and media integration. The platform includes comment systems, social sharing, analytics, and content categorization features.	VS Code	DigitalOcean with Docker for CI/CD

9. Web Design(HTML5, Bulma, Sass, Bootstrap, Tailwind CSS, Figma, Adobe XD, Sketch, Webflow)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
E-commerce Platform UI/UX	HTML5, Tailwind CSS, Figma, Adobe XD, React, Next.js, TypeScript, Storybook, Docker, AWS	A modern e-commerce platform UI/UX design system with responsive layouts and intuitive navigation. The design system includes a comprehensive component library with accessibility features and dark mode support.	The platform provides a seamless shopping experience with product browsing, cart management, checkout flow, and order tracking. The design emphasizes conversion optimization with clear CTAs and streamlined user journeys.	VS Code, Figma, Adobe XD	AWS S3, CloudFront, Actions
Healthcare Portal UI/UX	HTML5, Bootstrap, Sass, Figma, Adobe XD, React, Next.js, TypeScript, Storybook, Docker, AWS	A healthcare portal UI/UX design system with patient-focused interfaces and accessibility compliance. The design system includes components for appointment scheduling, medical records, and telemedicine features.	The platform enables patients to schedule appointments, access medical records, communicate with healthcare providers, and manage prescriptions. The design emphasizes clarity and ease of use for users with varying technical abilities.	VS Code, Figma, Adobe XD	AWS S3, CloudFront, Actions
Portfolio Website	HTML5, Tailwind CSS, Figma, React, Next.js, TypeScript, Storybook, Docker, Netlify	A portfolio website design system with responsive layouts and creative animations. The design system includes components for project showcases, testimonials, and contact forms with smooth scrolling and parallax effects.	The website showcases creative work with detailed project descriptions, process insights, and client testimonials. The design emphasizes visual storytelling with interactive elements and smooth transitions.	VS Code, Figma	Netlify v for CI/CD

Blog Platform UI/UX	HTML5, Bulma, Sass, Figma, React, Next.js, TypeScript, Storybook, Docker, Vercel	A blog platform UI/UX design system with content-focused layouts and reading optimization. The design system includes components for article layouts, author profiles, and comment sections with typography optimization for readability.	The platform provides an optimal reading experience with customizable layouts, dark mode, and accessibility options. The design emphasizes content presentation with minimal distractions and focused reading experiences.	VS Code, Figma	Vercel w for CI/CI
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10. Security(Metasploit,Kali Linux,Burp Suite,nmap, wireshark,OWASP ZAP,Cryptography/Secure Communications,Malware Analysis, Web App Security)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Security Operations Center Platform	Python, Java, Metasploit, Kali Linux, Burp Suite, nmap, wireshark, OWASP ZAP, Docker, Kubernetes, AWS, Elasticsearch, Logstash, Kibana, React	A comprehensive security operations center platform integrating various security tools for threat detection and response. The platform provides centralized monitoring, analysis, and response capabilities for security incidents.	The platform collects security logs from various sources, analyzes them for threats, and provides alerts and recommendations for remediation. It includes vulnerability management, incident response, and compliance reporting features.	PyCharm Professional, VS Code	AWS EK, GitHub / AWS Elasti storage
Web Application Security Scanner	Python, Java, Burp Suite, OWASP ZAP, nmap, Docker, Kubernetes, AWS, React, FastAPI	A web application security scanner that automates vulnerability detection and security testing. The scanner integrates multiple security tools to provide comprehensive security assessments.	The scanner performs automated security testing of web applications, identifies vulnerabilities, and provides remediation guidance. It includes continuous monitoring, compliance checking, and reporting features.	PyCharm Professional, VS Code	AWS Far GitHub /
Malware Analysis Platform	Python, Java, Kali Linux, Docker, Kubernetes, AWS, React, FastAPI	A malware analysis platform for identifying and analyzing malicious software. The platform provides sandboxed environments for safe malware execution and behavior analysis.	The platform executes suspicious files in isolated environments, monitors their behavior, and identifies malicious characteristics. It includes signature generation, threat intelligence integration, and reporting features.	PyCharm Community Edition, VS Code	DigitalOcean with Docker for CI/CI
Secure Communication Platform	Python, Java, Cryptography libraries, Docker, Kubernetes, AWS, React, FastAPI	A secure communication platform with end-to-end encryption and secure messaging capabilities. The platform implements various cryptographic protocols for secure data transmission and storage.	Users can exchange messages, files, and media with encryption ensuring confidentiality and integrity. The platform includes key management, secure authentication, and access control features.	PyCharm Community Edition, VS Code	Heroku / Actions

11. Devops(Jenkins, Github Actions, Docker, K8s, Ansible, Terraform, Prometheus, Graphana, Elk, GitLab CI/CD, Azure DevOps)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Cloud-Native DevOps Platform	Jenkins, GitHub Actions, Docker, Kubernetes, Ansible, Terraform, Prometheus, Grafana, ELK, GitLab CI/CD, Azure DevOps, AWS, React	A comprehensive cloud-native DevOps platform for automating the entire software delivery lifecycle. The platform integrates various DevOps tools for continuous integration, continuous deployment, and infrastructure as code.	The platform automates code building, testing, and deployment across multiple environments. It includes infrastructure provisioning, configuration management, monitoring, and alerting capabilities.	VS Code, IntelliJ IDEA Ultimate	AWS EK, GitHub / AWS S3
Multi-Environment CI/CD Pipeline	Jenkins, GitHub Actions, Docker, Kubernetes, Ansible, Terraform, Prometheus, Grafana, ELK, GitLab CI/CD, Azure DevOps, AWS, GCP, React	A multi-environment CI/CD pipeline that supports development, staging, and production environments with automated testing and deployment. The pipeline includes infrastructure provisioning, configuration management, and monitoring.	The pipeline automates the entire software delivery process from code commit to production deployment. It includes environment-specific configurations, automated testing, and rollback capabilities.	VS Code, PyCharm Professional	AWS EK, GitHub / AWS RD
Infrastructure Management Platform	Jenkins, Docker, Kubernetes, Ansible, Terraform, Prometheus, Grafana, ELK, AWS, React	An infrastructure management platform for provisioning and managing cloud resources with infrastructure as code. The platform includes configuration management, monitoring, and alerting capabilities.	The platform automates the provisioning and management of cloud resources, including servers, databases, and networking components. It includes cost monitoring, resource optimization, and compliance checking features.	VS Code	AWS EK, GitHub /
Application Monitoring Platform	Prometheus, Grafana, ELK, Docker, Kubernetes, AWS, React, FastAPI	An application monitoring platform for collecting, analyzing, and visualizing metrics and logs. The platform provides real-time monitoring, alerting, and performance analysis capabilities.	The platform collects metrics and logs from applications, analyzes them for performance issues, and provides visualizations for monitoring. It includes alerting based on threshold conditions and historical trend analysis.	VS Code	DigitalOcean with Docker for CI/CI

12. C# (.NET 8, ASP.NET Core, Blazor, Entity fr, LINQ, MAUI, WPF, NUnit, SignalR, Grpc, xUnit, IdentityServer / ASP.NET Identity, Hangfire / Quartz.NET)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Enterprise Resource Planning System	.NET 8, ASP.NET Core, Blazor, Entity Framework, LINQ, MAUI, WPF, NUnit, SignalR, gRPC, xUnit, IdentityServer, Docker, Kubernetes, AWS, React	A comprehensive enterprise resource planning system with web and desktop interfaces. The system uses .NET 8 for high performance and includes real-time updates using SignalR.	The system manages various business processes including finance, human resources, inventory, and supply chain. It includes role-based access control, workflow automation, and reporting capabilities.	Visual Studio 2022, Rider	AWS EK, GitHub / AWS RD
Healthcare Management System	.NET 8, ASP.NET Core, Blazor, Entity Framework, LINQ, MAUI, WPF, NUnit, SignalR, gRPC, xUnit, IdentityServer, Hangfire, Docker, Kubernetes, AWS, React	A healthcare management system with web and mobile interfaces for patient care and administrative tasks. The system uses .NET 8 for high performance and includes real-time updates using SignalR.	The system manages patient records, appointments, billing, and medical records with HIPAA compliance. It includes telemedicine capabilities, prescription management, and analytics for healthcare providers.	Visual Studio 2022, Rider	Azure App Service, Docker, CI/CD, A
Task Management Application	.NET 8, ASP.NET Core, Blazor, Entity Framework, LINQ, MAUI, WPF, NUnit, SignalR, Docker, AWS, React	A collaborative task management application with real-time updates and team collaboration features. The application uses .NET 8 for high performance and includes real-time updates using SignalR.	Users can create projects, assign tasks, set deadlines, and track progress through various views. The application includes time tracking, resource allocation, and reporting features for project managers.	Visual Studio 2022	Heroku / Actions

E-commerce Platform	.NET 8, ASP.NET Core, Blazor, Entity Framework, LINQ, WPF, NUnit, SignalR, Docker, AWS, React	A full-featured e-commerce platform with product catalog, shopping cart, and order management. The platform uses .NET 8 for high performance and includes real-time updates using SignalR.	The platform handles product listings, shopping carts, payment processing, order fulfillment, and customer accounts. It includes inventory management, order tracking, and customer service features.	Visual Studio 2022	DigitalOcean for CI/CD
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13. GO (Goroutines, Channels, net/http, Gin, GORM or sqxl, Go Modules, gRPC, Docker, Testify)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
High-Performance API Gateway	Go, Goroutines, Channels, net/http, Gin, GORM, Go Modules, gRPC, Docker, Kubernetes, AWS, React, Prometheus, Grafana	A high-performance API gateway built with Go's concurrency features for handling thousands of concurrent requests. The gateway uses goroutines and channels for efficient request processing and includes rate limiting and load balancing.	The gateway routes requests to various microservices, handles authentication, enforces policies, and provides monitoring. It includes request/response transformation, caching, and circuit breaker patterns for resilience.	GoLand, VS Code	AWS EKS, GitHub / AWS Lambda
Real-time Analytics Platform	Go, Goroutines, Channels, net/http, Gin, GORM, Go Modules, gRPC, Docker, Kubernetes, AWS, React, Prometheus, Grafana, Kafka	A real-time analytics platform using Go's concurrency features for processing high-volume data streams. The platform uses goroutines and channels for efficient parallel processing of incoming data.	The platform ingests data from multiple sources, processes it in real-time, stores results in time-series databases, and provides visualization dashboards. It supports custom analytics pipelines and alerting systems based on threshold conditions.	GoLand, VS Code	AWS EKS, GitHub / AWS Lambda, AWS Kinesis
Microservices Framework	Go, Goroutines, Channels, net/http, Gin, GORM, Go Modules, gRPC, Docker, Kubernetes, React, Prometheus	A microservices framework built with Go's concurrency features for building distributed systems. The framework includes service discovery, load balancing, and monitoring capabilities.	The framework provides building blocks for creating microservices with consistent patterns for communication, configuration, and monitoring. It includes authentication, authorization, and rate limiting features.	GoLand, VS Code	DigitalOcean with CI/CD
Chat Application	Go, Goroutines, Channels, net/http, Gin, GORM, Go Modules, gRPC, Docker, Kubernetes, React, WebSocket	A real-time chat application using Go's concurrency features for handling multiple concurrent connections. The application uses goroutines and channels for efficient message broadcasting and state management.	Users can create chat rooms, send messages, share files, and participate in group conversations. The application includes message encryption, read receipts, and typing indicators.	GoLand, VS Code	Heroku / Actions

14. Rust (Cargo, Rustup, Crates.io, Tokio, WebAssembly, Actix, Rocket, Diesel, Serde)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
High-Performance Web Application	Rust, Cargo, Tokio, Actix, Rocket, Diesel, Serde, WebAssembly, Docker, Kubernetes, AWS, React, PostgreSQL	A high-performance web application built with Rust for maximum speed and memory efficiency. The application uses async/await patterns with Tokio for handling concurrent requests efficiently.	The application provides a fast and secure platform for user management, content creation, and real-time interactions. It includes authentication, authorization, and content moderation features.	RustRover, VS Code	AWS EKS, GitHub / AWS Lambda
Blockchain Explorer	Rust, Cargo, Tokio, Actix, Rocket, Diesel, Serde, WebAssembly, Docker, Kubernetes, AWS, React, Ethereum libraries	A blockchain explorer for analyzing and visualizing blockchain data with high performance. The application uses Rust's memory safety guarantees for secure handling of blockchain data.	The explorer allows users to search transactions, view account balances, and analyze blockchain patterns. It includes transaction visualization, network statistics, and alerting features.	RustRover, VS Code	AWS EKS, GitHub / AWS Lambda
API Gateway	Rust, Cargo, Tokio, Actix, Rocket, Diesel, Serde, Docker, Kubernetes, AWS, React	A high-performance API gateway built with Rust for handling thousands of concurrent requests. The gateway uses async/await patterns for efficient request processing and includes rate limiting and load balancing.	The gateway routes requests to various services, handles authentication, enforces policies, and provides monitoring. It includes request/response transformation, caching, and circuit breaker patterns for resilience.	RustRover, VS Code	DigitalOcean with CI/CD
Real-time Data Processing	Rust, Cargo, Tokio, Actix, Rocket, Diesel, Serde, Docker, Kubernetes, AWS, React, Kafka	A real-time data processing application using Rust's performance characteristics for high-throughput data processing. The application uses async/await patterns for efficient parallel processing.	The application ingests data from multiple sources, processes it in real-time, and provides analytics. It includes data validation, transformation, and storage with efficient memory management.	RustRover, VS Code	Heroku / Actions

15. PHP (Laravel, Symfony, Composer, PHPUnit, Doctrine, Twig)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
E-commerce Platform	PHP, Laravel, Symfony, Composer, PHPUnit, Doctrine, Twig, React, Docker, Kubernetes, AWS, MySQL, Redis	A full-featured e-commerce platform with product catalog, shopping cart, and order management. The platform uses Laravel for the backend and Symfony components for additional functionality.	The platform handles product listings, shopping carts, payment processing, order fulfillment, and customer accounts. It includes inventory management, order tracking, and customer service features.	PhpStorm, VS Code	AWS EKS, GitHub / AWS Lambda
Content Management System	PHP, Laravel, Symfony, Composer, PHPUnit, Doctrine, Twig, React, Docker, Kubernetes, AWS, MySQL, Elasticsearch	A comprehensive content management system with rich editing capabilities and multi-site support. The system uses Laravel for the backend and Symfony components for additional functionality.	The system allows users to create, manage, and publish content with version control and workflow features. It includes media management, SEO optimization, and multi-language support.	PhpStorm, VS Code	DigitalOcean with CI/CD
Blog Platform	PHP, Laravel, Symfony, Composer, PHPUnit, Doctrine, Twig, React, Docker, MySQL	A modern blog platform with content management, SEO optimization, and reader engagement features. The platform uses Laravel for the backend and Symfony components for additional functionality.	Authors can create, edit, and publish articles with rich formatting and media integration. The platform includes comment systems, social sharing, analytics, and content categorization features.	PhpStorm, VS Code	Heroku / Actions
Task Management Application	PHP, Laravel, Symfony, Composer, PHPUnit, Doctrine, Twig, React, Docker, MySQL	A collaborative task management application with real-time updates and team collaboration features. The application uses Laravel for the backend and Symfony components for additional functionality.	Users can create projects, assign tasks, set deadlines, and track progress through various views. The application includes time tracking, resource allocation, and reporting features for project managers.	PhpStorm, VS Code	DigitalOcean with CI/CD

16. Ruby (Rails, Sinatra, Hanami, Bundler, RSpec, RuboCop, Sidekiq, Capistrano)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Social Media Platform	Ruby, Rails, Sinatra, Hanami, Bundler, RSpec, RuboCop, Sidekiq, Capistrano, React, Docker, Kubernetes, AWS, PostgreSQL, Redis	A full-featured social media platform with real-time features, content management, and user interaction capabilities. The platform uses Rails for the backend and Sidekiq for background job processing.	Users can create profiles, share content, interact with other users, and join communities. The platform includes content recommendation algorithms, real-time notifications, and content moderation features.	RubyMine, VS Code	AWS EK, GitHub / AWS RD
E-commerce Platform	Ruby, Rails, Sinatra, Hanami, Bundler, RSpec, RuboCop, Sidekiq, Capistrano, React, Docker, Kubernetes, AWS, PostgreSQL, Redis	A full-featured e-commerce platform with multi-vendor support, payment processing, and order management. The platform uses Rails for the backend and Sidekiq for background job processing.	The platform supports multiple sellers, product listings, shopping carts, payment processing, order fulfillment, and customer service. It includes seller analytics, inventory management, and marketing tools.	RubyMine, VS Code	DigitalOcean with Docker for CI/CD
Blog Platform	Ruby, Rails, Sinatra, Hanami, Bundler, RSpec, RuboCop, Sidekiq, React, Docker, PostgreSQL	A modern blog platform with content management, SEO optimization, and reader engagement features. The platform uses Rails for the backend and Sidekiq for background job processing.	Authors can create, edit, and publish articles with rich formatting and media integration. The platform includes comment systems, social sharing, analytics, and content categorization features.	RubyMine, VS Code	Heroku Actions
Task Management Application	Ruby, Rails, Sinatra, Hanami, Bundler, RSpec, RuboCop, Sidekiq, React, Docker, PostgreSQL	A collaborative task management application with real-time updates and team collaboration features. The application uses Rails for the backend and Sidekiq for background job processing.	Users can create projects, assign tasks, set deadlines, and track progress through various views. The application includes time tracking, resource allocation, and reporting features for project managers.	RubyMine, VS Code	DigitalOcean with Docker for CI/CD

17. C++ (STL, Boost Libraries, RAII, Qt Framework, CUDA, Concurrency, Clang / GCC (compilers), CMake)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
High-Performance Trading Platform	C++, STL, Boost Libraries, RAI, Qt Framework, CUDA, Concurrency, Clang/GCC, CMake, Docker, Kubernetes, AWS, Python, React	A high-performance trading platform optimized for low-latency order execution with sophisticated algorithms and GPU acceleration. The platform uses C++ for maximum performance and Qt for the user interface.	The platform processes market data, executes trading strategies, and manages order books with microsecond precision. It includes risk management, position tracking, and real-time performance analytics.	Visual Studio, Clion, Qt Creator	AWS Lambda instance CI/CD
3D Graphics Engine	C++, STL, Boost Libraries, RAI, Qt Framework, CUDA, Concurrency, Clang/GCC, CMake, Docker, Kubernetes, AWS, OpenGL/Vulkan	A high-performance 3D graphics engine with advanced rendering techniques and GPU acceleration. The engine uses C++ for maximum performance and Qt for tools and utilities.	The engine provides rendering capabilities for games, simulations, and visualization applications. It includes shader systems, physics integration, and asset management features.	Visual Studio, Clion, Qt Creator	AWS Lambda instance CI/CD
Image Processing Application	C++, STL, Boost Libraries, RAI, Qt Framework, CUDA, Concurrency, Clang/GCC, CMake, Docker, OpenGL	A high-performance image processing application with GPU acceleration for real-time image manipulation. The application uses C++ for maximum performance and Qt for the user interface.	The application provides various image processing operations including filters, transformations, and analysis. It includes batch processing capabilities and plugin architecture for extending functionality.	Visual Studio, Clion, Qt Creator	DigitalOcean with Docker for CI/CD
Audio Processing Library	C++, STL, Boost Libraries, RAI, Qt Framework, Concurrency, Clang/GCC, CMake, Docker	A high-performance audio processing library with real-time capabilities and multi-threading support. The library uses C++ for maximum performance and RAI principles for resource management.	The library provides audio processing operations including filtering, effects, and analysis. It includes real-time processing capabilities and plugin architecture for extending functionality.	Visual Studio, Clion	Heroku Actions

18. C (GCC (GNU Compiler Collection), Clang/LLVM, Make/CMake, Valgrind, GDB (GNU Debugger), Embedded C, OpenMP, GTK)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Embedded System for IoT	C, GCC, Clang/LLVM, Make/CMake, Valgrind, GDB, Embedded C, OpenMP, GTK, Docker, Kubernetes, AWS, Python, React	A high-performance embedded system for IoT devices with resource-efficient code and real-time capabilities. The system uses C for maximum efficiency and GTK for the user interface.	The system collects data from sensors, processes it in real-time, and communicates with cloud services. It includes device management, over-the-air updates, and security features.	Eclipse CDT, Clion	AWS IoT Embedded Actions
Operating System Kernel	C, GCC, Clang/LLVM, Make/CMake, Valgrind, GDB, Embedded C, OpenMP, Docker, QEMU	A lightweight operating system kernel with process management, memory management, and device drivers. The kernel uses C for maximum efficiency and includes real-time capabilities.	The kernel provides basic operating system services for running applications on embedded systems. It includes process scheduling, memory management, and device driver frameworks.	Eclipse CDT, Clion	QEMU Actions
Real-time Data Processing System	C, GCC, Clang/LLVM, Make/CMake, Valgrind, GDB, OpenMP, Docker, Python	A real-time data processing system optimized for high-throughput and low-latency processing. The system uses C for maximum efficiency and OpenMP for parallel processing.	The system ingests data from multiple sources, processes it in real-time, and provides analytics. It includes data validation, transformation, and storage with efficient memory management.	Eclipse CDT, Clion	DigitalOcean with Docker for CI/CD
System Monitoring Tool	C, GCC, Clang/LLVM, Make/CMake, Valgrind, GDB, GTK, Docker	A system monitoring tool with real-time performance metrics and resource usage visualization. The tool uses C for maximum efficiency and GTK for the user interface.	The tool monitors system resources including CPU, memory, disk usage, and network activity. It includes alerting based on threshold conditions and historical trend analysis.	Eclipse CDT, Clion	Heroku Actions

19. Flutter (Dart, Hot Reload, Widgets, Material Design, Cupertino, BLoC, Provider, Riverpod, FlutterFlow, firebase)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
E-commerce Mobile Application	Flutter, Dart, Hot Reload, Widgets, Material Design, Cupertino, BLoC, Provider, Riverpod, Firebase, Docker, Kubernetes, AWS, React Native	A cross-platform e-commerce mobile application with real-time updates and seamless shopping experience. The application uses Flutter for cross-platform development and Firebase for backend.	The application provides product browsing, cart management, payment processing, order tracking, and user accounts. It includes personalized recommendations, loyalty programs, and customer	Android Studio, VS Code	AWS AppSync / GitHub / AWS Lambda

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Healthcare Mobile Application	Flutter, Dart, Hot Reload, Widgets, Material Design, Cupertino, Bloc Provider, Riverpod, FlutterFlow, Firebase, Docker, Kubernetes, AWS, React Native	A cross-platform healthcare mobile application with appointment scheduling, telemedicine, and health tracking features. The application uses Flutter for cross-platform development and Firebase for backend services.	The application enables patients to schedule appointments, access medical records, communicate with healthcare providers, and manage prescriptions. It includes health tracking, medication reminders, and telemedicine features.	Android Studio, VS Code	Firebase for CI/CD
Social Media Mobile Application	Flutter, Dart, Hot Reload, Widgets, Material Design, Cupertino, Bloc Provider, Riverpod, FlutterFlow, Firebase, React Native	A cross-platform social media mobile application with real-time messaging and content sharing features. The application uses Flutter for cross-platform development and Firebase for backend services.	Users can create profiles, share content, interact with other users, and join communities. The application includes messaging, notifications, and content discovery features.	Android Studio, VS Code	Firebase for CI/CD
Task Management Mobile Application	Flutter, Dart, Hot Reload, Widgets, Material Design, Cupertino, Bloc Provider, Riverpod, Hiltierflow, Firebase, React Native	A cross-platform task management mobile application with real-time updates and team collaboration features. The application uses Flutter for cross-platform development and Firebase for backend services.	Users can create projects, assign tasks, set deadlines, and track progress through various views. The application includes time tracking, resource allocation, and reporting features for project managers.	Android Studio, VS Code	Firebase for CI/CD

20. Gamedev(Unity, Unreal Engine, Godot, CryEngine, GameMaker Studio, Cocos2d-x, Blender, Substance Painter, Photon Networking)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Open-World RPG Game	Unity, C#, Blender, Substance Painter, Photon Networking, Docker, Kubernetes, AWS, Unity Analytics, Unity Ads	A large-scale open-world RPG game with immersive storytelling, dynamic quests, and multiplayer capabilities. The game uses Unity for development and includes custom shaders and visual effects.	Players explore a vast world, complete quests, engage in combat, and interact with other players. The game includes character progression, inventory management, and social features.	Unity, Visual Studio, Blender	Steam, C Store with services
Multiplayer FPS Game	Unreal Engine, C++, Blender, Substance Painter, Photon Networking, Docker, Kubernetes, AWS, Epic Online Services	A fast-paced multiplayer FPS game with competitive gameplay and team-based modes. The game uses Unreal Engine for development and includes custom weapons and maps.	Players engage in team-based or free-for-all combat with various game modes. The game includes matchmaking, leaderboards, and progression systems.	Unreal Engine, Visual Studio, Blender	Steam, C Store with services
Puzzle Adventure Game	Godot, GDScript, Blender, Cocos2d-x, Docker, AWS, Godot Steamworks	A puzzle adventure game with environmental puzzles, character abilities, and story-driven gameplay. The game uses Godot for development and includes custom physics puzzles.	Players solve puzzles, explore environments, and progress through a story with choices that affect outcomes. The game includes inventory management and character progression.	Godot, Blender	Steam, C Store with services
2D Platformer Game	GameMaker Studio, GML, Blender, Cocos2d-x, Docker, AWS	A 2D platformer game with challenging levels, power-ups, and boss battles. The game uses GameMaker Studio for development and includes pixel art graphics.	Players navigate through levels, collect items, defeat enemies, and progress through the game. The game includes character abilities, power-ups, and secret areas.	GameMaker Studio, Blender	Steam, C Store with services

21. Video (processing, optimizing and another video algor, ffmpeg, opencv)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Video Processing Platform	Python, C++, FFmpeg, OpenCV, Docker, Kubernetes, AWS, React, FastAPI	A comprehensive video processing platform with transcoding, editing, and analysis capabilities. The platform uses FFmpeg for video processing and OpenCV for computer vision tasks.	The platform processes video files for various purposes including transcoding to different formats, applying filters, extracting metadata, and analyzing content. It includes batch processing capabilities and workflow automation.	PyCharm Professional, Visual Studio, FFmpeg command line	AWS EK, GitHub / AWS S3
Real-time Video Analytics	Python, C++, FFmpeg, OpenCV, Docker, Kubernetes, AWS, React, FastAPI, TensorFlow, PyTorch	A real-time video analytics platform with object detection, face recognition, and scene analysis capabilities. The platform uses FFmpeg for video processing and deep learning models for analysis.	The platform analyzes video streams in real-time to detect objects, recognize faces, and understand scenes. It includes alerting based on detected events and provides analytics dashboards.	PyCharm Professional, Visual Studio, FFmpeg command line	AWS EK, GitHub / AWS Kinesis streams
Video Compression Tool	Python, C++, FFmpeg, OpenCV, Docker, React, FastAPI	A video compression tool with various codecs and optimization techniques. The tool uses FFmpeg for video processing and includes custom algorithms for better compression.	The tool compresses video files with minimal quality loss, supporting various codecs and optimization parameters. It includes batch processing capabilities and preview functionality.	PyCharm Community Edition, Visual Studio, FFmpeg command line	Heroku Actions
Video Enhancement Application	Python, C++, FFmpeg, OpenCV, Docker, React, FastAPI	A video enhancement application with upscaling, denoising, and color correction capabilities. The application uses FFmpeg for video processing and OpenCV for image enhancement.	The application enhances video quality by applying various filters and algorithms. It includes automatic enhancement options and manual adjustment capabilities.	PyCharm Community Edition, Visual Studio, FFmpeg command line	DigitalOcean with Docker for CI/CD

22. Compilers (Compilers/Translator design, Language theory, Parsing theory, LLVM, JIT/AOT techniques, static analysis, type systems)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Domain-Specific Language Compiler	C++, LLVM, JIT/AOT techniques, static analysis, type systems, Docker, Kubernetes, AWS, Python, React	A compiler for a domain-specific language with optimized code generation and type checking. The compiler uses LLVM for code generation and includes static analysis capabilities.	The compiler translates domain-specific language code to optimized machine code with type safety guarantees. It includes optimization passes and error reporting for better developer experience.	Visual Studio, Clion, LLVM IDE	AWS EK, GitHub /
Just-In-Time Compiler Framework	C++, LLVM, JIT/AOT techniques, static analysis, type systems, Docker, Kubernetes, AWS, Python, React	A just-in-time compiler framework with adaptive optimization and profiling capabilities. The framework uses LLVM for code generation and includes runtime profiling for optimization decisions.	The framework compiles and optimizes code at runtime based on execution profiles. It includes adaptive optimization techniques and memory management for efficient execution.	Visual Studio, Clion, LLVM IDE	AWS Lambda instance CI/CD
Static Analysis Tool	C++, LLVM, static analysis, type systems, Docker	A static analysis tool for detecting code issues and	The tool analyzes source code for potential issues	Visual Studio, Clion, LLVM IDE	DigitalOcean with Docker

	Kubernetes, AWS, Python, React	security vulnerabilities. The tool uses LLVM for code analysis and includes various analysis passes for different types of issues.	including security vulnerabilities, performance problems, and code quality issues. It includes reporting and suggestions for improvement.		for CI/CI
Bytecode Interpreter	C++, LLVM, JIT/AOT techniques, Docker, Kubernetes, AWS, Python, React	A bytecode interpreter with just-in-time compilation capabilities. The interpreter uses LLVM for code generation and includes optimization techniques for better performance.	The interpreter executes bytecode with just-in-time compilation to native code for better performance. It includes memory management and optimization passes for efficient execution.	Visual Studio, Clion	Heroku Actions
23. Bigdata+ETL (Spark, Kafka, Hive/Trino, Flink, Airflow, dbt, NiFi, Snowflake, Databricks, AWS Glue, BigQuery, Beam)					
PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Real-time Data Processing Platform	Spark, Kafka, Flink, Airflow, dbt, NiFi, Snowflake, Databricks, AWS Glue, BigQuery, Beam, Docker, Kubernetes, AWS, React	A comprehensive real-time data processing platform with ingestion, processing, and analytics capabilities. The platform uses Spark for batch processing, Flink for stream processing, and Kafka for data streaming.	The platform ingests data from multiple sources, processes it in real-time, stores it in data warehouses, and provides analytics dashboards. It includes data quality checks, transformation pipelines, and monitoring features.	PyCharm Professional, VS Code, Databricks IDE	AWS EK, GitHub / AWS Gl for data
Data Lakehouse Platform	Spark, Kafka, Trino, Airflow, dbt, NiFi, Snowflake, Databricks, AWS Glue, BigQuery, Beam, Docker, Kubernetes, AWS, React	A modern data lakehouse platform combining data lake flexibility with data warehouse capabilities. The platform uses Trino for querying data across various storage systems and dbt for data transformation.	The platform stores and processes structured and unstructured data with SQL-based querying capabilities. It includes data governance, metadata management, and analytics features.	PyCharm Professional, VS Code, Databricks IDE	AWS EK, GitHub / AWS S3 Snowfla
ETL Pipeline Manager	Spark, Kafka, Airflow, dbt, NiFi, Snowflake, Docker, Kubernetes, AWS, React	An ETL pipeline manager with workflow orchestration and monitoring capabilities. The manager uses Airflow for workflow orchestration and dbt for data transformation.	The manager orchestrates ETL workflows, monitors pipeline execution, and provides alerts for failures. It includes dependency management, retry mechanisms, and performance optimization features.	PyCharm Community Edition, VS Code	DigitalOcean with Docker for CI/CI
Data Quality Monitoring System	Spark, Kafka, dbt, NiFi, Snowflake, Docker, Kubernetes, AWS, React, FastAPI	A data quality monitoring system with validation rules and anomaly detection capabilities. The system uses Spark for data processing and includes custom validation rules for data quality checks.	The system monitors data quality across various data sources, detects anomalies, and provides alerts for data issues. It includes data profiling, validation rules, and reporting features.	PyCharm Community Edition, VS Code	Heroku Actions
24. Blockchain(Solidity, Python, Rust, Web3.js, SHA-256, Truffle, IPFS, Hardhat, OpenZeppelin, Ganache, Ethers.js, Ethereum blockchain, Hyperledger Fabric DLT framework, Proof-of-Work (PoW) consensus mechanism, Merkle Trees data structure, Trezor hardware wallet security, MythX smart contract auditing tool, Consensus (PoW, PoS, PBFT implementations))					
PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
DeFi Platform	Solidity, Python, Rust, Web3.js, Truffle, IPFS, Hardhat, OpenZeppelin, Ganache, Ethers.js, Ethereum blockchain, Docker, Kubernetes, AWS, React	A decentralized finance platform with lending, borrowing, and trading capabilities. The platform uses Ethereum blockchain for smart contracts and IPFS for decentralized storage.	The platform enables users to lend and borrow cryptocurrencies, provide liquidity to pools, and trade tokens on decentralized exchanges. It includes governance features, yield farming, and staking capabilities.	Remix IDE, VS Code, Hardhat	AWS EK, GitHub / IPFS for storage
Supply Chain Management System	Solidity, Python, Rust, Web3.js, Truffle, IPFS, Hardhat, OpenZeppelin, Hyperledger Fabric, Docker, Kubernetes, AWS, React	A blockchain-based supply chain management system with transparency and traceability features. The system uses both Ethereum and Hyperledger Fabric for different aspects of the supply chain.	The system tracks products from manufacturing to delivery with immutable records on the blockchain. It includes quality control, compliance checking, and supplier management features.	Remix IDE, VS Code, Hyperledger Composer	AWS EK, GitHub /
NFT Marketplace	Solidity, Python, Web3.js, Truffle, IPFS, Hardhat, OpenZeppelin, Docker, Kubernetes, AWS, React	A non-fungible token marketplace for buying, selling, and trading digital assets. The marketplace uses Ethereum blockchain for NFTs and IPFS for decentralized storage of digital assets.	Users can create, list, buy, and sell NFTs with various digital assets. The marketplace includes bidding, auctions, royalties, and collection management features.	Remix IDE, VS Code, Hardhat	DigitalOcean with Docker for CI/CI
Blockchain Voting System	Solidity, Python, Web3.js, Truffle, IPFS, Hardhat, OpenZeppelin, Docker, Kubernetes, AWS, React	A blockchain-based voting system with transparency and immutability features. The system uses Ethereum blockchain for secure voting and IPFS for storing voting data.	The system enables secure voting with voter anonymity and result immutability. It includes identity verification, vote counting, and result announcement features.	Remix IDE, VS Code, Hardhat	Heroku Actions / decentral
25. GIS (ArcGIS, QGIS, PostGIS, Mapbox, Leaflet, GeoServer, GDAL, OpenLayers, Cesium, Coordinate systems, GeoJSON, spatial indexing (R-tree), Shapefile (.shp))					
PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Urban Planning Platform	ArcGIS, QGIS, PostGIS, Mapbox, Leaflet, GeoServer, GDAL, OpenLayers, Cesium, Docker, Kubernetes, AWS, React, Python	A comprehensive urban planning platform with spatial analysis, visualization, and data management capabilities. The platform uses PostGIS for spatial data storage and Mapbox for interactive maps.	The platform supports urban planning tasks including land use analysis, transportation planning, and infrastructure management. It includes spatial analysis tools, scenario modeling, and collaboration features.	QGIS, VS Code, ArcGIS Pro	AWS EK, GitHub / AWS RD
Environmental Monitoring System	QGIS, PostGIS, Mapbox, Leaflet, GeoServer, GDAL, OpenLayers, Cesium, Docker, Kubernetes, AWS, React, Python	An environmental monitoring system with spatial data collection, analysis, and visualization capabilities. The system uses PostGIS for spatial data storage and Leaflet for interactive maps.	The system collects environmental data from various sources, analyzes it for trends and patterns, and provides visualizations for decision-making. It includes alerting based on threshold conditions and historical analysis.	QGIS, VS Code	DigitalOcean with Docker for CI/CI
Real Estate Mapping Platform	QGIS, PostGIS, Mapbox, Leaflet, GeoServer, Docker, Kubernetes, AWS, React, Python	A real estate mapping platform with property listings, spatial search, and visualization features. The platform uses PostGIS for spatial data storage and Mapbox for interactive maps.	Users can search for properties based on location, price, and features. The platform includes property details, neighborhood information, and market analysis features.	QGIS, VS Code	Heroku Actions

Disaster Response Platform	QGIS, PostGIS, Mapbox, Leaflet, GeoServer, Docker, Kubernetes, AWS, React, Python	A disaster response platform with real-time tracking and coordination capabilities. The platform uses PostGIS for spatial data storage and Leaflet for interactive maps.	The platform tracks disaster events, resources, and response teams in real-time. It includes resource allocation, route planning, and communication features for disaster response teams.	QGIS, VS Code	DigitalOcean with Docker for CI/CD
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26. Finance (Loan Origination & Servicing, Credit-Scoring Models, Risk Management & VaR, Portfolio Optimization, Market Prediction/Time-Series Forecasting, Algorithmic Trading, Derivatives Pricing, Asset Allocation & Rebalancing, Treasury/Liquidity Management)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Algorithmic Trading Platform	Python, Java, C++, Pandas, NumPy, TensorFlow, PyTorch, FastAPI, React, Docker, Kubernetes, AWS, Redis, Apache Kafka	A comprehensive algorithmic trading platform with strategy development, backtesting, and live trading capabilities. The platform uses machine learning models for market prediction and risk assessment.	The platform enables users to develop, test, and deploy trading strategies across multiple markets and instruments. It includes real-time market data processing, order execution, and performance analytics.	PyCharm Professional, VS Code, Visual Studio	AWS Lambda, Docker, GitHub Actions, PostgreSQL
Risk Management Platform	Python, Java, Pandas, NumPy, TensorFlow, PyTorch, FastAPI, React, Docker, Kubernetes, AWS, Redis, Apache Kafka	A risk management platform with VaR calculation, stress testing, and portfolio analytics capabilities. The platform uses machine learning models for risk assessment and prediction.	The platform calculates risk metrics, performs stress testing, and provides analytics for portfolio management. It includes scenario analysis, reporting, and compliance features.	PyCharm Professional, VS Code, Visual Studio	AWS Lambda, GitHub Actions, AWS RDS
Credit Scoring System	Python, Pandas, NumPy, Scikit-learn, TensorFlow, FastAPI, React, Docker, Kubernetes, AWS	A credit scoring system with machine learning models for assessing creditworthiness. The system uses various data sources and algorithms to generate credit scores.	The system analyzes applicant data to generate credit scores and risk assessments. It includes model validation, monitoring, and explainability features for transparent decision-making.	PyCharm Community Edition, VS Code	DigitalOcean with Docker for CI/CD
Portfolio Optimization Tool	Python, Pandas, NumPy, Scikit-learn, TensorFlow, FastAPI, React, Docker, Kubernetes, AWS	A portfolio optimization tool with asset allocation and rebalancing capabilities. The tool uses mathematical optimization techniques for portfolio construction.	The tool optimizes portfolios based on risk preferences, return objectives, and constraints. It includes scenario analysis, performance attribution, and rebalancing recommendations.	PyCharm Community Edition, VS Code	Heroku Actions

27. Assembly (CPU Architecture (x86, ARM, Registers, Instruction Set (Opcodes), Assembler (NASM, MASM), Machine Code (Binary), Memory Addressing, System Calls (Interrupts), Linker)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Operating System Kernel	Assembly (x86, ARM), C, NASM, MASM, Linker, Docker, QEMU, Linux Kernel	A lightweight operating system kernel with process management, memory management, and device drivers. The kernel uses assembly for critical sections and C for higher-level functionality.	The kernel provides basic operating system services for running applications on x86 and ARM platforms. It includes process scheduling, memory management, and device driver frameworks.	NASM, MASM, Eclipse CDT, CLion	QEMU Actions
Real-time System	Assembly (x86, ARM), C, NASM, MASM, Linker, Docker, QEMU, Real-time OS	A real-time system with deterministic response times and priority-based scheduling. The system uses assembly for critical sections and C for higher-level functionality.	The system processes time-critical tasks with guaranteed response times. It includes task scheduling, resource management, and interrupt handling for real-time applications.	NASM, MASM, Eclipse CDT, CLion	QEMU Actions
Bootloader	Assembly (x86), NASM, Linker, Docker, QEMU	A bootloader with initialization and kernel loading capabilities. The bootloader uses assembly for low-level system initialization and memory management.	The bootloader initializes hardware, sets up memory management, and loads the operating system kernel. It includes error handling and recovery mechanisms for boot failures.	NASM, QEMU	QEMU Actions
Device Driver	Assembly (x86, ARM), C, NASM, MASM, Linker, Docker, QEMU, Linux Kernel	A device driver for a specific hardware component with interrupt handling and DMA capabilities. The driver uses assembly for critical sections and C for higher-level functionality.	The driver manages a specific hardware component, handles interrupts, and provides an interface for the operating system. It includes error handling and recovery mechanisms for hardware failures.	NASM, MASM, Eclipse CDT, CLion	QEMU Actions

28. Medicine (FHIR (Fast Healthcare Interoperability Resources), AlphaFold, CRISPR-Cas9, DICOM (Digital Imaging/Communications in Medicine))

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Medical Imaging Platform	Python, Java, DICOM processing libraries, FHIR, AlphaFold, Docker, Kubernetes, AWS, React, TensorFlow, PyTorch	A medical imaging platform with DICOM processing, analysis, and visualization capabilities. The platform uses FHIR for data exchange and AlphaFold for protein structure prediction.	The platform processes medical images (X-rays, CT scans, MRIs) for diagnosis assistance and treatment planning. It includes image analysis, 3D reconstruction, and AI-assisted diagnosis features.	PyCharm Professional, VS Code, DICOM viewers	AWS Lambda, GitHub Actions, AWS S3
Genomic Analysis Platform	Python, Java, FHIR, AlphaFold, CRISPR-Cas9, Docker, Kubernetes, AWS, React, TensorFlow, PyTorch	A genomic analysis platform with DNA sequence analysis, protein structure prediction, and CRISPR design capabilities. The platform uses FHIR for data exchange and AlphaFold for protein structure prediction.	The platform analyzes genomic data for disease identification, drug discovery, and personalized medicine. It includes sequence analysis, variant detection, and CRISPR design features.	PyCharm Professional, VS Code, Bioinformatics tools	AWS Lambda, GitHub Actions
Electronic Health Records System	Python, Java, FHIR, Docker, Kubernetes, AWS, React	An electronic health records system with patient data management, interoperability, and analytics capabilities. The system uses FHIR for data exchange and standardization.	The system manages patient records, medical history, and treatment plans with privacy and security features. It includes interoperability with other healthcare systems and analytics for population health.	PyCharm Community Edition, VS Code	DigitalOcean with Docker for CI/CD
Telemedicine Platform	Python, Java, FHIR, Docker, Kubernetes, AWS, React, WebRTC	A telemedicine platform with video consultations, remote monitoring, and prescription management capabilities. The platform uses FHIR for data exchange and standardization.	The platform enables virtual consultations between patients and healthcare providers with secure communication and record keeping. It includes remote monitoring, prescription management, and follow-up features.	PyCharm Community Edition, VS Code	Heroku Actions

29. Kotlin (Android SDK, Jetpack Compose, Gradle, Retrofit, Coroutines, Room, Firebase, Ktor)

PROJECT	TECH STACK	SHORT TECH DESCRIPTION	BUSINESS LOGIC	IDE	DEPLOY
Healthcare Mobile Application	Kotlin, Android SDK, Jetpack Compose, Gradle, Retrofit, Coroutines, Room, Firebase, Ktor, Docker, Kubernetes, AWS, React Native	A cross-platform healthcare mobile application with appointment scheduling, telemedicine, and health tracking features. The application uses Kotlin for Android development and Jetpack Compose for modern UI.	The application enables patients to schedule appointments, access medical records, communicate with healthcare providers, and manage prescriptions. It includes health tracking, medication reminders, and telemedicine features.	Android Studio, VS Code	Firebase for CI/CI services
E-commerce Mobile Application	Kotlin, Android SDK, Jetpack Compose, Gradle, Retrofit, Coroutines, Room, Firebase, Ktor, Docker, Kubernetes, AWS, React Native	A cross-platform e-commerce mobile application with real-time updates and seamless shopping experience. The application uses Kotlin for Android development and Jetpack Compose for modern UI.	The application provides product browsing, cart management, payment processing, order tracking, and user accounts. It includes personalized recommendations, loyalty programs, and customer service features.	Android Studio, VS Code	AWS App GitHub /
Social Media Mobile Application	Kotlin, Android SDK, Jetpack Compose, Gradle, Retrofit, Coroutines, Room, Firebase, Ktor, React Native	A cross-platform social media mobile application with real-time messaging and content sharing features. The application uses Kotlin for Android development and Jetpack Compose for modern UI.	Users can create profiles, share content, interact with other users, and join communities. The application includes messaging, notifications, and content discovery features.	Android Studio, VS Code	Firebase for CI/CI
Task Management Mobile Application	Kotlin, Android SDK, Jetpack Compose, Gradle, Retrofit, Coroutines, Room, Firebase, Ktor, React Native	A cross-platform task management mobile application with real-time updates and team collaboration features. The application uses Kotlin for Android development and Jetpack Compose for modern UI.	Users can create projects, assign tasks, set deadlines, and track progress through various views. The application includes time tracking, resource allocation, and reporting features for project managers.	Android Studio, VS Code	Firebase for CI/CI



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