DIVYANSH KARAN

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Education

Bachelor of Technology, VIT Bhopal University   **2022-2026**
Computer Science Engineering, CGPA: 8.82/10   *Bhopal, Madhya Pradesh*

Technical Skills

Backend Development: Python, Java, C++, Node.js, Django, FastAPI, Express.js, RESTful APIs, GraphQL
Frontend Technologies: React.js, Next.js, JavaScript, TypeScript, HTML, CSS, UI/UX principles
Database Systems: PostgreSQL, MongoDB, Redis, SQL optimization, database design, indexing strategies
Development Tools: Git, Postman, Jest, GitHub Actions, GitLab CI
Cloud & DevOps: AWS (EC2, S3, Lambda, RDS, CloudFormation, API Gateway, SNS/SQS, CloudWatch),Microsoft Azure, Docker, Kubernetes, Linux, NGINX, CI/CD pipelines, Jenkins
Microservices & Architecture: Microservices design, Event-driven architecture,Domain Driven Design, Message queues, Kafka

Projects

ShelfSpace – Personalized Book Discovery Platform   **Jan 2025 – Ongoing**
NextJS, ExpressJS, FastAPI, TypeScript, PostgreSQL, Prisma, Kafka, Docker, Redis, NGINX

- Developed domain-driven microservices architecture with User, Books, Bookmarks, and Forums services, enabling personalized Book discovery
- Designed advanced User and Book modeling with PostgreSQL and Prisma ORM, implementing behavioral tracking and ML-driven recommendation algorithms
- Implemented real-time event-driven communication via Kafka for cross-service preference updates, ensuring consistent personalization data
- Optimized performance using Redis caching and database tuning, achieving sub-100ms response times for personalized book recommendations

EisLager – Multi-Role E-Commerce and Inventory Management Platform   **Feb 2025 – Ongoing**
NextJS, ExpressJS, PostgreSQL, Kafka, WebSockets, Docker, Microservices, Event-Driven Architecture

- Developed ERP and e-commerce hybrid system supporting 4 user roles (Executive, Manufacturer, Clerk, Patron) with role-based dashboards and workflow automation
- Architected event-driven microservices ecosystem with 8 bounded-context services handling inventory, sales, billing, communications, and analytics using Domain-Driven Design principles
- Integrated real-time WebSocket communications and Kafka streaming for instant stock synchronization, order processing, and cross-service notifications
- Built advanced analytics pipeline with pre-aggregated metrics and PostgreSQL optimization, enabling real-time sales dashboards and financial reporting for multi-location operations

WriteWave – AI-Powered Japanese Learning Platform   **Mar 2025 – Apr 2025**
NextJS, NodeJS, ExpressJS, PostgreSQL, OpenCV.js, Docker, OCR, PWA,Domain Driven Design

- Built interactive Japanese character learning platform with client-side OCR using OpenCV.js and React.js, achieving sub-100ms recognition for Hiragana, Katakana, and Kanji
- Developed microservices backend with Node.js and Express.js, implementing User, Character, Progress, and Community services with PostgreSQL clusters for scalable data management
- Implemented client-side OCR with OpenCV.js and template-matching algorithms for real-time validation, eliminating server latency and enabling offline recognition capabilities
- Deployed production-ready system using Docker with real-time stroke analysis, gamification features, and offline-capable PWA supporting cross-platform compatibility

Achievements & Activities

Competitive Programming: Maintained a 600+ day consistency streak while solving 1500+ DSA problems on LeetCode and GeeksforGeeks
Database Expertise: Completed the LeetCode SQL 50 challenge, demonstrating advanced querying, optimization, and database design skills
Leadership Experience: Coordinated TCS on-campus recruitment drives, managing logistics and candidate coordination for 200+ students
Academic Excellence: Secured 1st place in the DSA Tussle competition at AdVITya 2024, showcasing strong algorithmic problem-solving abilities