Vineela Kandunuru Muni

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LinkedIn | **GitHub** | **Portfolio**

SUMMARY

Senior Full Stack Java Developer with 7+ years of experience building enterprise applications across FinTech, healthcare, banking, and e-commerce domains. Expertise in developing scalable microservices using Java and Spring Boot with modern frontend frameworks including Angular and React. Proficient in event-driven architectures using Kafka, secure authentication with OAuth2/JWT, database design with PostgreSQL/MySQL/Oracle, Redis caching, and cloud deployments on AWS and Azure. Strong experience with CI/CD pipelines, Docker/Kubernetes containerization, RESTful API design, and production monitoring. Recent experience integrating GenAI capabilities using Azure OpenAI and AWS Bedrock for enterprise automation workflows.

TECHNICAL SKILLS

Category	Technologies
Programming Languages	Java, JavaScript, TypeScript, SQL, HTML5, CSS3
Java & Frameworks	Core Java, J2EE, Spring Boot, Spring MVC, Spring Security, Spring Data JPA, Spring Batch, Spring Kafka, Spring Cloud, Hibernate, JPA, JDBC
Frontend Frameworks	Angular, React, TypeScript, JavaScript, RxJS, Redux, React Router, Angular Router, Angular Material, Bootstrap
Web Technologies	HTML5, CSS3, RESTful APIs, AJAX, JSON, XML, Responsive Design, Single Page Applications (SPA)
Databases	PostgreSQL, MySQL, Oracle, MS SQL Server, MongoDB
Caching & Search	Redis, Elasticsearch, OpenSearch
Messaging/ Streaming	Apache Kafka, RabbitMQ, Spring Kafka
Cloud Platforms	AWS (EC2, EKS, ECS, S3, RDS, CloudWatch, Secrets Manager, Systems Manager), Azure (App Services, Key Vault, Monitor, OpenAI), GCP
DevOps & CI/CD	Docker, Kubernetes, Jenkins, Azure DevOps, GitHub Actions, Maven, Gradle, Git, GitLab, Bitbucket
Monitoring/ Logging	CloudWatch, Azure Monitor, ELK Stack (Elasticsearch, Logstash, Kibana), Log4j, SLF4J, Prometheus, Grafana
Web Services	REST, SOAP, GraphQL, Microservices, OAuth2, JWT, OpenAPI/Swagger, JAX-RS, JAX-WS
Testing Tools	JUnit, Mockito, TestNG, Jasmine, Karma, Jest, Cypress, Postman, TestContainers, React Testing Library, Selenium
Build Tools	Maven, Gradle, npm, Webpack
Development Tools	IntelliJ IDEA, Eclipse, VS Code, STS, Postman, JIRA, Confluence, Git, Chrome DevTools
Design Patterns	MVC, Singleton, Factory, DAO, DTO, Dependency Injection, Observer, Strategy
Methodologies	Agile, Scrum, Waterfall, Test-Driven Development (TDD), CI/CD, Microservices Architecture
AI/ML Technologies	Azure OpenAI, Amazon Bedrock, RAG (Retrieval-Augmented Generation), Vector Embeddings, Prompt Engineering, LangChain, GenAI Integration
Security	Spring Security, OAuth2, JWT, SAML, Role-Based Access Control (RBAC), PII Masking, Data Encryption

PROFESSIONAL EXPERIENCE
Senior FullStack Developer
HCL Technologies | May 2024 – Present
Project Description: Working on enterprise digital transformation projects for global clients in FinTech and logistics domains. The application is built using Java and Spring Boot for backend microservices and Angular for frontend user interfaces. My role involves implementing business features, integrating frontend with backend services, and supporting event-driven workflows using Kafka. I also worked on integrating GenAI-based automation features for internal business use cases. The system is deployed on AWS and Azure cloud environments using CI/CD pipelines. Actively collaborated with frontend, backend, QA, and DevOps teams to deliver secure and scalable enterprise applications.

Frontend:
- Developed Angular components using TypeScript, HTML5, and CSS3 for enterprise dashboards and workflow screens. Implemented reusable UI components and shared design patterns across modules using Angular component architecture.
- Integrated Angular services with backend REST APIs to fetch and submit transactional and operational data. Used Angular HttpClient, RxJS observables, and JSON handling to manage asynchronous communication.
- Implemented reactive forms, validations, and dynamic UI behavior for user input screens and business workflows. Used Angular Reactive Forms, custom validators, and TypeScript models to enforce data integrity.
- Managed client-side routing and role-based navigation across multiple application modules. Implemented Angular Router, route guards, and authentication interceptors for secured access.
- Fixed UI defects, layout issues, and performance problems reported during testing and production. Used Chrome DevTools, Angular debugging tools, and JIRA tickets to analyze and resolve issues.

Backend:
- Developed RESTful APIs using Java and Spring Boot to support core business workflows. Implemented controllers, services, and repositories using Spring MVC and Spring Data JPA.
- Implemented business logic and data processing using Hibernate and Java service layers. Used DTOs and entity mappings to handle request and response flows.
- Integrated Kafka producers and consumers for asynchronous event processing. Used Apache Kafka and Spring Kafka for message publishing and consumption.
- Implemented validation, exception handling, and logging for backend services. Used Spring Validation, global exception handlers, and Log4j. Wrote unit and integration tests for backend APIs. Used JUnit, Mockito, and Postman for testing.

Cloud / DevOps:
- Deployed Java Spring Boot microservices to AWS EC2 and Amazon EKS using Docker containers, Kubernetes Deployments/Services, and environment-based Spring Profiles for consistent runtime behavior across dev/QA/prod.
- Built CI/CD automation using Jenkins pipelines with Maven builds, Git-based branching, and artifact versioning to support repeatable builds, controlled releases, and rollback-ready deployments.
- Managed secure configuration and secret rotation using AWS Secrets Manager and environment variables, integrating secrets into Spring Boot at runtime to avoid hardcoded credentials and reduce exposure risk.
- Supported release execution and production stabilization by coordinating with DevOps/QA via JIRA, validating Kubernetes rollout status, and resolving environment issues related to networking, configuration, and container startup.

AI / ML (GenAI):
- Integrated Azure OpenAI into Spring Boot services for GenAI-assisted automation features by building REST client wrappers, JSON request/response DTOs, and service-layer orchestration for safe prompt execution.
- Implemented prompt templating, input validation, and response parsing in Java to convert model outputs into application-ready formats, handling timeouts, retries, and fallback responses for reliability.
- Added PII masking and sensitive-field redaction before model calls using Java utility libraries and regex-based sanitization to align with compliance-aware handling of enterprise data.
- Exposed GenAI results to the Angular UI by integrating backend endpoints with Angular services, HttpClient, and RxJS-based state updates to support loading states, error handling, and clear user messaging.
- Validated GenAI workflows using Postman for API testing and JUnit/Mockito for service-level testing, using Log4j logs and JIRA defect tracking to debug failures and support release readiness

Environment: Java 8, Spring Boot, Spring MVC, Spring Data JPA, Hibernate, Angular, TypeScript, HTML5, CSS3, Kafka, AWS EC2, AWS EKS, AWS S3, AWS CloudWatch, Azure OpenAI, Docker, Kubernetes, Jenkins, Git, JUnit, Mockito, Postman, Log4j, JIRA

Software Developer
UnitedHealth Group (Optum) | Sep 2022 – Dec 2023
Project Description:
Worked on healthcare enterprise applications supporting revenue cycle management and clinical operations at Optum. The application was built using Angular for frontend interfaces and Java Spring Boot for backend microservices. My role involved developing new features, integrating multiple internal systems, and supporting secure healthcare workflows. Worked closely with business analysts and QA teams to implement compliance-driven requirements. The system processed sensitive patient and claims data and required strict security controls. Deployed applications on Azure cloud with CI/CD pipelines and continuous monitoring.

Frontend:
- Developed Angular components using TypeScript, HTML5, and CSS3 for healthcare dashboards and claims processing screens. Built reusable UI components and shared layouts to maintain consistency across different application modules. Worked closely with business teams to implement UI changes based on healthcare workflow requirements.
- Integrated Angular services with backend REST APIs to retrieve and update patient, provider, and claims data. Used Angular HttpClient and RxJS observables to manage asynchronous communication and update UI state. Handled loading states and fallback messages to improve user experience.
- Implemented reactive forms, field validations, and conditional UI logic for medical coding and billing workflows. Used Angular Reactive Forms and custom validators to enforce business rules on client-side. Added error messages and input constraints to reduce invalid requests reaching backend systems.
- Managed client-side routing and secured access for different user roles across healthcare application modules. Implemented Angular Router, route guards, and HTTP interceptors to protect sensitive screens. Coordinated with backend teams to align UI permissions with Spring Security roles.
- Fixed UI defects, layout issues, and cross-browser compatibility problems reported during testing cycles. Used Chrome DevTools, Angular debugging tools, and JIRA tickets to analyze issues. Supported regression testing and verified fixes before production releases.

Backend:
- Developed RESTful APIs using Java and Spring Boot to support healthcare business processes and frontend integrations. Implemented controllers, service layers, and repository classes using Spring MVC and Spring Data JPA. Used Swagger for API documentation and testing support.
- Implemented business logic and data processing using Hibernate, JPA entity mappings, and validation layers. Used DTOs and request models to maintain clean separation between API and database layers. Worked with PostgreSQL queries for claims and eligibility data.
- Integrated Kafka-based messaging for asynchronous communication between healthcare systems. Used Spring Kafka producers and consumers to process background tasks and system events. Added logging and retries to ensure reliable message processing.
- Implemented validation, exception handling, and structured logging across backend services. Used Spring Validation annotations and global exception handlers for consistent error responses. Used Log4j logging to support production troubleshooting.
- Wrote unit tests and integration tests for APIs and service logic. Used JUnit, Mockito, and Postman collections to validate healthcare workflows. Worked with QA teams to reproduce defects and deliver stable fixes.

Cloud:
- Deployed Spring Boot microservices on Azure App Services and container-based environments. Worked with Docker images and deployment configurations for application packaging. Supported environment-specific deployments across dev, QA, and production.
- Configured CI/CD pipelines using Jenkins and Azure DevOps for automated builds and releases. Used Maven build scripts and pipeline stages to manage deployments. Supported build failures and fixed configuration issues.
- Managed environment configurations and secrets for healthcare applications. Used Azure Key Vault and environment variables to store sensitive values securely. Verified runtime configuration during application startup and deployments.
- Monitored application logs and system health during production support cycles. Used Azure Monitor and logging tools to track errors and performance issues. Provided logs and diagnostics for incident investigations.

Environment: Java 8, Spring Boot, Spring MVC, Spring Data JPA, Hibernate, Angular, TypeScript, HTML5, CSS3, RxJS, Kafka, PostgreSQL, Azure App Services, Azure Key Vault, Docker, Jenkins, Azure DevOps, Git, Maven, JUnit, Mockito, Postman, Swagger, Log4j, JIRA

Software Developer
Glacier Bancorp | Jan 2021 – Aug 2022
Project Description:
Worked on digital banking and middleware applications supporting core banking systems and online banking platforms at Glacier Bancorp. The application was built using React for frontend interfaces and Java Spring Boot for backend services. My role involved developing new banking features, integrating third-party systems, and supporting secure financial transactions. Worked closely with business analysts to implement regulatory and compliance-driven requirements. Supported batch processing and data migration workflows for banking systems. Applications were deployed on AWS cloud environments with CI/CD pipelines and monitoring.

Frontend
- Developed React components using JavaScript, HTML5, and CSS3 for customer-facing digital banking screens. Built reusable UI components and common layouts for account management and transaction features. Worked with UX teams to implement responsive designs and improve usability.
- Integrated React services with backend REST APIs to retrieve and update customer account and transaction data. Used Axios and JSON handling to manage asynchronous communication. Implemented loading states and error handling for better user experience.
- Implemented form validations and conditional UI logic for banking workflows such as transfers and profile updates. Used React state management and controlled components to enforce input rules. Reduced invalid requests by adding client-side validation.
- Managed client-side routing and navigation across multiple digital banking modules. Used React Router to enable smooth navigation between dashboards and transaction pages. Ensured proper access to screens based on user login status.
- Fixed UI defects and cross-browser issues reported during testing and user acceptance. Used Chrome DevTools and React debugging tools to analyze issues. Supported regression testing and validated fixes before releases.

Backend
- Developed RESTful APIs using Java and Spring Boot to support digital banking workflows and frontend integration. Implemented controllers, services, and repository layers using Spring MVC and Spring Data JPA. Used Swagger for API documentation.
- Implemented business logic and transaction processing using Hibernate and service-layer validations. Used DTOs and entity mappings to manage data flow between API and database layers. Worked with Oracle and PostgreSQL for account data.
- Maintained Spring Batch jobs for data migration and reporting tasks across banking systems. Used batch configurations and job schedulers to process large data sets. Supported job monitoring and error handling.
- Integrated external systems using REST and SOAP services for payment processing and account services. Used Spring Web Services and REST templates for system communication. Added retries and logging for stable integrations.
- Implemented validation, exception handling, and structured logging for backend services. Used Spring Validation and global exception handlers for consistent error responses. Used Log4j for production debugging.

Cloud / DevOps
- Deployed Spring Boot applications on AWS EC2 using Docker containers. Worked with container images and environment profiles for application hosting. Supported deployment activities during release cycles.
- Configured CI/CD pipelines using Jenkins and Git for automated builds and deployments. Used Maven build scripts and pipeline stages for release management. Resolved build and deployment issues.
- Managed environment configurations and database connections across development and production environments. Used environment variables and property files for configuration. Verified application startup during deployments.
- Monitored application logs and server health using AWS CloudWatch. Tracked errors and performance issues during production support. Provided logs for incident analysis.
- Supported production releases, hotfix deployments, and environment troubleshooting. Worked closely with DevOps teams during banking system upgrades. Verified application stability after releases.

Environment: Java 8, Spring Boot, Spring MVC, Spring Data JPA, Hibernate, Spring Batch, React, JavaScript, HTML5, CSS3, Oracle, PostgreSQL, AWS EC2, AWS CloudWatch, Docker, Jenkins, Git, Maven, Swagger, Log4j, JIRA, REST, SOAP

Software Developer
Coupon Dunia | Oct 2018 – Dec 2020
Project Description:
Worked on a high-traffic consumer e-commerce platform providing coupons and cashback services for online shoppers. The application was built using Angular for frontend user interfaces and Java Spring Boot for backend services. My role involved developing new features, improving search functionality, and integrating multiple merchant systems. Worked closely with product and QA teams to implement user-facing workflows and promotions. Focused on performance improvements and stability during peak traffic periods. Applications were deployed on AWS cloud with continuous integration and monitoring support.

Frontend

- Developed Angular components using TypeScript, HTML5, and CSS3 for coupon listing, search, and user profile screens. Built reusable UI components and common layouts for different pages across the application. Worked with designers to ensure responsive and mobile-friendly UI behavior.
- Integrated Angular services with backend REST APIs to fetch coupon data, user information, and transaction details. Used Angular HttpClient and RxJS observables to handle asynchronous requests and UI updates. Implemented loading indicators and fallback messages for better user experience.
- Implemented search filters, sorting logic, and pagination for large coupon datasets displayed on the UI. Used Angular components and custom pipes to manage dynamic content rendering. Improved usability by allowing users to filter offers by category and merchant.
- Implemented form validations and conditional UI logic for user registration and wallet features. Used Angular Reactive Forms and TypeScript models to enforce input rules. Reduced invalid requests by adding client-side validation before submitting data.
- Fixed UI defects, layout issues, and cross-browser compatibility problems reported during testing and production. Used Chrome DevTools and Angular debugging tools to analyze rendering issues. Supported regression testing before feature releases.

Backend

- Developed RESTful APIs using Java and Spring Boot to support coupon management and user workflows. Implemented controllers, service layers, and repository classes using Spring MVC and Spring Data JPA. Used Swagger for API documentation and testing support.
- Implemented business logic for coupon validation, redemption, and user wallet updates. Used Hibernate entity mappings and service-layer validations to process transactions. Worked with MySQL and PostgreSQL for storing user and coupon data.
- Integrated Redis caching to improve performance for frequently accessed coupon and merchant data. Used Redis templates and cache annotations to reduce database load. Improved response times during high traffic periods.
- Integrated Elasticsearch for fast coupon and merchant search using indexing logic and query APIs, maintaining sync between database and search indexes. Implemented validation, exception handling, and logging using Spring Validation, global exception handlers, and Log4j.

Cloud / DevOps

- Deployed Spring Boot applications on AWS EC2 using Docker containers. Worked with container images and environment profiles for application hosting. Supported deployment activities during feature releases.
- Configured CI/CD pipelines using Jenkins and Git for automated builds and deployments. Used Maven build scripts and pipeline stages for release management. Fixed build failures and dependency issues.
- Managed environment configurations and database connections across development and production environments. Used environment variables and property files for configuration.
- Verified application startup after deployments.Supported production releases, hotfix deployments, and environment troubleshooting.Worked closely with DevOps teams during promotional campaigns. Verified application stability after releases.

Environment: Java 8, Spring Boot, Spring MVC, Spring Data JPA, Hibernate, Angular, TypeScript, HTML5, CSS3, RxJS, MySQL, PostgreSQL, Redis, Elasticsearch, AWS EC2, AWS S3

EDUCATION

Master of Science in Business Analytics – University of North Texas

Bachelor of Engineering – Anna University, Chennai