

Vamshi Krishna Pullaiahgari

Software Engineer

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 5+ years of experience building, scaling, and maintaining cloud-hosted applications in Agile/Scrum environments across healthcare, financial services, and enterprise platforms. Strong expertise in Java and Spring Boot for REST and GraphQL APIs, modern frontend development using Angular, React, and Vue.js with structured state management, and data handling using relational and NoSQL databases. Hands-on experience deploying containerized services via CI/CD pipelines on AWS and Azure, implementing event-driven and real-time systems with Kafka and WebSockets, and securing applications using OAuth 2.0 and JWT. Experienced in performance optimization, production troubleshooting, and integrating AI-assisted features including LLM-based analysis and anomaly detection.

TECHNICAL SKILLS

Languages & Frameworks: Java (8–17), Python, JavaScript, TypeScript, C#, Golang, PHP, Spring Boot, Node.js, Next.js

Web & Frontend: Angular, React.js, Vue.js, HTML5, CSS3, Bootstrap, D3.js, Tailwind, Webpack, WCAG, State Management

Databases & ORM: Oracle, PostgreSQL, MySQL, MongoDB, DynamoDB, Hibernate, JPA, JDBC

Cloud & DevOps: AWS (EC2, ECS, EKS, Lambda, S3), Azure (AKS, Functions, ACR), Docker, Kubernetes, Jenkins, Terraform, CI/CD

AI & Data: OpenAI API, Gemini, Claude, LLM Summarization, AI Chatbot, Anomaly Detection, Python Pipelines, Power BI, Excel

Tools & Testing: Git, GitHub, Maven, SonarQube, Apache Kafka, JIRA, Postman, JUnit, Jest, Selenium WebDriver, GitHub Copilot

PROFESSIONAL EXPERIENCE

CVS Health | Software Engineer

Feb 2025 – Present | Texas, USA

Claims Management Dashboard – Java, Spring Boot, Angular, Vue.js, REST APIs, GraphQL, AWS ECS, RDS, D3.js.

- Engineered Java Spring Boot REST and GraphQL APIs to support claims processing workflows, enabling scalable feature delivery across sprint-based releases.
- Implemented Angular and Vue.js dashboards using reusable components and structured state management, improving UI consistency and reducing rework across features.
- Designed and optimized relational schemas and SQL queries on Amazon RDS while integrating NoSQL data stores, supporting efficient access to structured and semi-structured data.
- Deployed containerized Spring Boot services on AWS ECS using CI/CD pipelines, ALB routing, and CloudWatch monitoring, improving deployment reliability and operational visibility.
- Orchestrated Kafka-based event-driven communication and WebSocket real-time updates, enabling timely claim status updates and responsive system behavior.
- Integrated AI-assisted claim analysis using OpenAI APIs and backend data processing jobs, reducing manual review effort through automated summarization and pattern detection.
- Hardened application security by implementing JWT-based role-based access control integrated with AWS IAM, ensuring compliant access across endpoints.
- Collaborated with cross-functional teams using GitHub Copilot-assisted workflows to improve code quality and refactoring.

Citadel (Financial Services) | Software Engineer

Aug 2024 – Dec 2024 | Florida, USA

Trading & Risk Management Systems – Java, Spring Boot, React.js, Kafka, PostgreSQL, Azure AKS, Microservices.

- Developed Java Spring Boot microservices with REST APIs and Kafka-based streaming pipelines, supporting real-time processing of trading and risk data.
- Provisioned containerized services on Azure Kubernetes Service (AKS) using Azure Container Registry, ensuring controlled rollouts and rollback capabilities.
- Enabled asynchronous event ingestion using Azure Functions and Azure Event Hubs to improve scalability and decoupling.
- Constructed React.js components with predictable state management and optimized Webpack builds, improving frontend performance and maintainability.
- Connected Power BI dashboards with Excel and Azure Data Factory pipelines using Python, enabling data-driven insights for risk analysis workflows.

- Applied anomaly detection and predictive analytics features with monitoring via Azure Monitor, supporting proactive identification of abnormal system behavior.

Mphasis | *Software Engineer*

Feb 2021 – July 2023 | **Pune, India**

Digital Banking Modernization – *Java, Spring Boot, C#, Angular, REST APIs, OAuth 2.0, Oracle, PostgreSQL, AWS EKS.*

- Authored Java Spring Boot REST APIs and implemented business logic using C# (.NET Core), supporting integration across multiple internal banking systems.
- Assembled Angular UI modules with state-driven components and responsive layouts, supporting consistent user experiences across applications.
- Secured application access by implementing OAuth 2.0 and JWT-based authentication in compliance-driven environments.
- Supported Oracle and PostgreSQL databases on Amazon RDS and containerized services using Docker, enabling deployments through Jenkins CI/CD pipelines.
- Refined SQL queries for reporting and non-trivial data retrieval, improving data access efficiency for downstream consumers.
- Verified API reliability through unit and integration testing using JUnit and Postman while monitoring deployments via CloudWatch.
- Contributed to peer code reviews and technical documentation to maintain coding standards and shared understanding.

Covantech Pvt Ltd | *Associate Software Engineer*

Aug 2019 – Jan 2021 | **Hyderabad, India**

Healthcare CRM Platform Modernization – *Python, Selenium WebDriver, REST APIs, Kafka, AWS ECS, Oracle, MongoDB.*

- Created a Python-based Selenium WebDriver automation framework, reducing manual regression testing effort and improving test repeatability.
- Automated REST API validation using Python Requests and unittest, improving backend service verification coverage.
- Validated Kafka message streams by verifying event flow and data consistency, ensuring reliability across distributed services.
- Embedded smoke and regression test suites into Jenkins pipelines, supporting Docker-based deployments on AWS ECS.
- Produced Python utilities for XML and CSV parsing and verified data persistence across Oracle and MongoDB, supporting data integrity checks.

PROJECTS

Future Job Fit | *AI Resume Creation & Job Optimization Platform*

React, TypeScript, Supabase Edge Functions, Public LLM APIs (Gemini/OpenAI), Python (Pydide), Node.js

- Developed a full-stack application for resume creation and job alignment, implementing ATS-style keyword extraction and skill mapping workflows.
- Implemented a pluggable LLM integration layer using Gemini and OpenAI via Supabase Edge Functions, supporting secure server-side AI inference.
- Integrated browser-based Python (Pydide) for resume parsing and NLP preprocessing, offloading compute-intensive processing to the client.
- Structured modular React workflows with centralized state handling to support extensible resume editing and AI features.

WanderlustTrails | *Full Stack Travel Booking Platform*

React, PHP, REST APIs, MySQL, JWT Authentication

- Built a full-stack travel booking platform using React and PHP REST APIs, supporting search, booking, review, and administrative workflows.
- Modeled relational MySQL schemas and REST endpoints with JWT-based authentication for secure user and booking access.
- Delivered backend modules for bookings, payments, blogs, and user management, ensuring transactional consistency and availability checks.

EDUCATION

Masters in Computer Information Systems, *University of Central Missouri, Warrensburg, USA.*

Dec 2024