

Vamshi Krishna Pullaiahgari

Software Engineer | Overland Park, KS

+1 (913) 326-7373 | vamshikrishna2297@gmail.com | LinkedIn | GitHub | Portfolio

PROFESSIONAL SUMMARY

Full Stack Developer with 5+ years of experience building scalable, secure enterprise applications across healthcare, finance, and banking domains. Strong expertise in Java (8–17), Spring Boot, Angular/React, AWS microservices, and Kafka-based real-time systems. Proven in delivering REST/GraphQL APIs, cloud-native deployments (ECS/EKS), CI/CD automation, and secure authentication using OAuth2/JWT. Recently contributed to AI-assisted analytics for claims processing and financial risk workflows.

TECHNICAL SKILLS

Languages: Java (8–17), Python, JavaScript, TypeScript, C#, PHP

Backend: Spring Boot, Node.js, Hibernate, JPA, JDBC, REST APIs

Cloud: AWS (ECS, EKS, Lambda, Fargate, S3, RDS), Azure

AI Integration: OpenAI API, Claude, AI Chatbot Integration

Data/Analytics: LLM Summarization, Anomaly Detection, Pipelines

Frontend: React.js, Redux, Angular, HTML5/CSS3, Bootstrap

Databases: Oracle, PostgreSQL, MySQL, MongoDB, DynamoDB

DevOps: Docker, Kubernetes, Jenkins, Terraform, Git, GitHub

Tools: Maven, SonarQube, JIRA, Postman

Testing: JUnit, Jest, Selenium WebDriver

PROFESSIONAL EXPERIENCE

CVS Health | Full Stack Developer

Feb 2025 – Present | Texas, USA

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

- Designed and implemented REST and GraphQL APIs using Spring Boot to support insurance claims submission, approval, and billing workflows, improving processing throughput and enforcing secure role-based access.
- Built a real-time claims analytics dashboard with Angular and NgRx, integrating D3.js visualizations to surface KPIs and claim trends, reducing operational review time for analysts.
- Developed reusable Vue.js components for advanced filtering and visualization of claims data, improving UI consistency and accelerating feature delivery across modules.
- Containerized Spring Boot microservices and deployed on AWS ECS with RDS backend, enabling modular releases and improving application scalability under peak workloads.
- Integrated WebSocket communication for live claim status updates and notifications, enhancing operational visibility across claims processing teams.
- Optimized application performance through lazy loading, query tuning on AWS RDS, and CDN caching, reducing latency and improving dashboard responsiveness.
- Secured microservices using OAuth2, Spring Security, and JWT, ensuring HIPAA-compliant authentication and authorization across distributed services.
- Implemented LLM-assisted claim summarization and trend analysis using OpenAI APIs to generate contextual insights for complex claims, reducing manual review effort for claim analysts.

Citadel (Financial Services) | Software Engineer

Aug 2024 – Dec 2024 | Florida, USA

Trading & Risk Management Systems – Java, Spring Boot, React.js, Kafka, PostgreSQL, AWS EKS, Lambda, Microservices.

- Developed low-latency Spring Boot microservices supporting trading and risk workflows, enabling reliable real-time financial transaction processing across distributed systems.
- Contributed to migrating legacy trading services to AWS, deploying containerized workloads on EKS and integrating Lambda for serverless components, improving platform scalability and operational efficiency.
- Implemented REST APIs and Kafka-based streaming pipelines for secure, sub-millisecond data exchange across trading, pricing, and risk systems.
- Built AI-assisted anomaly detection pipelines over Kafka trade streams using statistical models and Python services, reducing false-positive alerts, and improving risk signal accuracy.
- Developed React.js dashboards for real-time market exposure and ML-enriched analytics, enabling traders and portfolio managers to make faster, data-driven decisions.

Mphasis | Full Stack Developer

Feb 2021 – July 2023 | Pune, India

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

- Designed and delivered Spring Boot microservices supporting digital banking workflows including account management, payments, and loan origination, improving platform scalability and service reliability.

- Developed and optimized REST APIs with asynchronous processing, caching, and pagination, reducing average API response times by 25% and increasing overall system throughput.
- Implemented secure authentication and authorization using OAuth 2.0 / JWT and API gateway policies, aligning services with enterprise compliance and audit standards.
- Built modular Angular (TypeScript) components with responsive design and reusable directives, improving UI performance and maintainability across customer-facing banking portals.
- Tuned JPA/Hibernate mappings and optimized SQL queries in Oracle and PostgreSQL, reducing data access latency and improving transaction processing efficiency.
- Automated containerized deployments using Docker and Jenkins on AWS EKS, strengthening release reliability, and minimizing manual intervention across environments.

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.

- Developed a Python-based Selenium WebDriver automation framework to validate end-to-end healthcare CRM workflows, reducing manual regression effort by 40% and improving release stability.
- Engineered REST API automation using Python Requests and UnitTest to validate Spring Boot microservices for claim submission and adjudication, accelerating backend verification cycles.
- Simulated and validated Kafka event streams to ensure real-time synchronization across distributed CRM modules, improving claims data consistency across systems.
- Integrated automated smoke and regression suites into Jenkins CI/CD pipelines for Docker deployments on AWS ECS, increasing build reliability and deployment confidence.
- Built Python utilities to parse and validate large XML/CSV healthcare claim files, reconciling backend persistence across Oracle and MongoDB to ensure data accuracy and compliance.

PROJECTS

Future Job Fit | AI Resume Creation & Job Optimization Platform

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

- Architected a full-stack platform enabling users to create resumes and optimize them against job descriptions using ATS-style keyword extraction, job-to-skill mapping, and AI-assisted content generation.
- Designed a pluggable LLM integration layer (default Gemini) with secure server-side API orchestration via Supabase Edge Functions, supporting multi-provider inference while protecting credentials.
- Integrated browser-based Python (Pyodide) for local document parsing and NLP preprocessing, combining client-side analytics with server-side AI services to deliver real-time JD-specific feedback.
- Built modular React workflows for resume builder, job optimizer, and AI recommendations, implementing scalable state management and extensible components for future feature expansion.

WanderlustTrails | Full Stack Travel Booking Platform

React, PHP, REST APIs, MySQL, JWT Authentication

- Designed and implemented an end-to-end travel booking platform with React frontend and PHP REST services, supporting user authentication, destination search, bookings, reviews, and role-based admin dashboards.
- Architected relational MySQL schemas and REST workflows for users, packages, bookings, and reviews, implementing JWT-based authentication and authorization for secure multi-role access across the platform.
- Built modular backend services for bookings, payments, blogs, and user management, enabling real-time availability checks, transactional consistency, and scalable feature expansion through loosely coupled APIs.

EDUCATION

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

Dec 2024

Bachelors in Computer Science Engineering, Jawaharlal Nehru Technological University, Hyderabad, India.

Jul 2019