

# 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**