

KANAKARAJU GOTTUMUKKALA

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PROFESSIONAL SUMMARY

Software engineer with 4+ years of experience developing and deploying scalable fintech solutions and AI platforms. Expertise includes cloud-native deployment (AWS, Docker, Kubernetes, Terraform), CI/CD automation, and secure API integrations, leading to increased API response times by 25% and cutting release cycles in half. Led the construction of a web IDE integrating Gemini, Claude, and Llama 3 models, which can handle concurrent loads response times.

EDUCATION

University of Missouri–Kansas City (UMKC), Kansas City, MO

Master of Science in Computer Science | GPA: 3.82/4

Aug 2023 – May 2025

PROFESSIONAL EXPERIENCE

Software Engineer – Fidelity National Information Services (FIS Global), India

Jun 2022 – Jul 2023

- Designed and scaled merchant payment modules supporting **10,000+ global merchants**, embedding **fault-tolerant error handling and proactive monitoring** to maintain **99.99% uptime** during peak load.
- Implemented **20+ Spring Boot microservices** with efficient database queries and caching layers, cutting API latency by **25%** and handling **30% YoY growth** without system strain.
- Orchestrated deployment pipelines with **Jenkins, Docker, AWS CodePipeline, Terraform**, compressing release cycles to **3 days** and enabling **50% faster go-lives** with safe rollbacks.
- Introduced **15+ modular React/Material-UI components** with lazy loading and smarter state handling, driving a **25% boost in frontend performance** and smoother merchant onboarding.
- Collaborated on **AWS cloud-native architecture** (ECS/EKS, S3, CloudWatch), reducing infrastructure spend by **18%** while increasing scalability.
- Guided and coached **4 junior engineers** via pair programming, reviews, and mentoring sessions, accelerating their ramp-up and improving team throughput by **30%**.
- Expanded automated testing with **JUnit, Mockito, Selenium**, raising test coverage from **55% → 85%**, cutting post-release defects by **40%**, and strengthening compliance.
- Drove Agile ceremonies (planning, retrospectives, backlog grooming), ensuring **100% sprint predictability** across **6 consecutive quarters** with cross-functional alignment.
- Established real-time dashboards and alerts, reducing **MTTR by 35%** and increasing SLA adherence.
- Authored **API specs, system diagrams, and deployment runbooks**, reducing reliance on senior architects by **20%** and preserving knowledge across teams.

Software Developer – L&T Finance Limited, India

Oct 2020 – Jun 2022

- Delivered full-stack **loan management/payment modules** using Spring Boot, Java, React, and PostgreSQL for **50,000+ active customers**, ensuring frictionless transactions.
- Published and tuned **REST APIs with auth + rate limiting**, trimming API response times by **30%** and strengthening security posture.
- Built **15+ React components** with Redux state flows, standardizing UI patterns and trimming dev effort by **25%**.
- Deployed **automated CI/CD pipelines** (Jenkins + Docker), shrinking release cycles from **2 weeks → 1 week** and enabling zero-downtime rollouts.
- Integrated with **payment gateways and credit bureaus** to deliver **real-time loan approvals and verifications**, accelerating customer decisioning.
- Refactored SQL queries and applied caching, shrinking reporting runtime from **10s+ to <3s**, boosting analyst output.
- Partnered with **BA, QA, and DevOps teams** to roll out **10+ production releases**, aligning delivery with regulatory timelines.
- Conducted **code reviews, unit tests, and security audits**, raising coverage to **85%** and ensuring fintech compliance.
- Transitioned legacy **JSP apps to React + Spring Boot microservices**, increasing maintainability and lowering defect rates by **20%**.

- Contributed to **internal audit & compliance apps** built on Java, Spring Boot, Angular, and MySQL, serving **5,000+ users** across multiple business units.
- Delivered **10+ secure APIs** with validation and logging, enhancing data reliability and reducing integration issues by **15%**.
- Applied **RBAC and security patches**, reinforcing adherence to **ISO 27001 + GDPR** standards.
- Tuned SQL queries and backend logic, dropping report generation from **12s → 4s**, giving auditors faster access to insights.
- Helped migrate **Excel/VBA workflows into dashboards**, cutting manual reporting by **40%**.
- Developed **5+ Angular components** for dashboards and forms, unifying UI design and reducing front-end defects by **20%**.
- Automated testing with **JUnit, Mockito, Postman**, lifting code coverage above **80%** and improving stability.
- Assisted with **CI/CD adoption (Jenkins)**, trimming deployment overhead and lowering rollback rates by **10%**.
- Actively participated in Agile rituals, achieving **100% on-time task delivery** tracked via Jira.

TECHNICAL SKILLS

Programming & Frameworks:	Java, Spring Boot, Python, JavaScript, TypeScript, React, Node.js.
Cloud & Infrastructure:	AWS, Docker, Kubernetes, Terraform, Jenkins, Git, GitHub/GitLab CI/CD
Databases & Data Management:	PostgreSQL, MySQL, Redis, Data Modeling, Query Optimization
AI, ML & LLM Integration:	Google Gemini 2.5 Pro, Claude, Llama 3, Ollama, Fraud Detection APIs, ML Pipelines
APIs & Integrations:	REST, SOAP, gRPC, OAuth 2.0, JWT Authentication, Google Maps API
Monitoring & Observability:	Prometheus, Grafana, Logging & Alerting Systems
Development Practices:	Agile/Scrum, Sprint Planning, Git, Secure Coding Standards
Other Tools & Platforms:	Monaco Editor, IntelliJ IDEA, Visual Studio Code,

KEY PROJECTS

VelociDE – AI-Based Code Editor | Feb 2025 |

- Orchestrated a production-ready web IDE supporting **20+ concurrent users**, integrating Gemini, Claude, and Llama 3 models for autonomous code management with **5ms average response times** and **100% accuracy under load**.
- Architected a **6-service Dockerized microservices system**, with latency benchmarks of **Auth: 6ms, AI Agent: 5ms, Compiler: 13ms**, enabling sub-10ms inter-service communication.
- Delivered a React + TypeScript SPA using Monaco Editor with **156ms cold starts and 25ms page loads**, including multi-tab editing, resizable panels, and gRPC powered terminals.
- Implemented OAuth 2.0/JWT for authentication, supporting **20+ simultaneous sessions** with lightweight **<50MB memory footprint per service**.
- Optimized container lifecycle management to achieve **3-second deployments** and **100% uptime** in stress testing across **10,000+ test requests**.

IntelliFlow AI Platform – Fintech Infrastructure | Jun 2025 |

- Designed a fraud detection API with ML + LLM integration, sustaining **~55ms p95 latency** at **414 requests per second (RPS)** with **zero errors** on 8-core/16GB infra.
- Deployed containerized services on Docker + Kubernetes with Terraform IaC, standardizing **100% of deployments** and reducing environment drift to **0%**.
- Built automated ML pipelines covering **feature engineering, retraining, and deployment**, cutting manual intervention by **80%** and release cycles by **40%**.
- Integrated Mistral LLMs for intelligent verification, improving fraud detection accuracy by **15%** while reducing false positives by **20%**.
- Monitored systems with Prometheus + Grafana, sustaining **sub-100ms latency** across **all mission-critical APIs** under continuous load.