KANAKARAJU GOTTUMUKKALA

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PROFESSIONAL SUMMARY

Software Engineer with **2+ years** building scalable **Java microservices** and **Python applications** for fintech and enterprise clients. Expertise in **Spring Boot**, **cloud-native architectures (AWS/Docker)**, and **REST API integrations** processing thousands of daily transactions. Proven ability to optimize system performance, implement **CI/CD pipelines**, and deliver quality code in **Agile environments**. Passionate about building efficient, maintainable solutions that drive business value.

EDUCATION

University of Missouri-Kansas City, MO   **Aug 2023 – May 2025**

Master of Science in Computer Science | GPA: 3.82/4
Core Focus: Advanced Algorithms, Distributed Systems, Cloud Computing Architecture, Machine Learning, Database Optimization
Merit Recognition: Dean's International Scholar - $16,000 scholarship for academic excellence

Lovely Professional University, Punjab, India   **Aug 2018 – May 2022**

Bachelor of Technology in Computer Science and Engineering | CGPA: 3.33/4
Foundation: Object-Oriented Design, Data Structures & Algorithms, Systems Architecture, Database Management

WORK EXPERIENCE

Software Engineer - Fidelity National Information Services (FIS Global), India   **Jun 2022 – Jul 2023**

- Developed and maintained merchant payment modules within enterprise platform serving **10,000+ global merchants**, implementing robust error handling and monitoring to ensure system reliability during **peak traffic periods** while supporting **zero-downtime deployment strategies**
- Built high-performance microservices with Spring Boot and Java, optimizing database queries and implementing caching strategies that improved **API response times by 25%** while ensuring seamless horizontal scalability
- Optimized deployment processes through CI/CD automation using Jenkins pipelines, Docker containerization, and AWS CodePipeline, incorporating automated testing and rollback mechanisms that reduced **deployment time by 50%**
- Designed **10+ dynamic, reusable UI components** using React and Material-UI, implementing lazy loading and state optimization techniques that achieved **25% improvement** in frontend performance and merchant experience
- Led Agile ceremonies including sprint planning and retrospectives, conducted thorough code reviews focusing on best practices and security, ensuring high code quality and effective team collaboration

Programmer Analyst - Cognizant Technology Solutions Corp (CTS), India   **Jan 2022 – Jun 2022**

- Coordinated transition from Salesforce Classic to Lightning by redesigning custom objects, page layouts, and workflows, improving system usability and performance for U.S.-based business operations
- Developed and implemented **30 workflow rules** and **15 approval processes**, leading to a **25% increase** in operational efficiency
- Ensured **100% data consistency** across millions of records by sequencing parent-child relationships and executing bulk data uploads with Data Loader
- Implemented complex REST/SOAP API integrations using MuleSoft middleware, along with OAuth for secure authentication between systems
- Designed and optimized large-scale data models, wrote advanced SOQL/SOSL queries, and managed Salesforce Shield encryption for data security and compliance

Software Development Intern - E-Box, India   **Apr 2020 – Jun 2020**

- Developed campus navigation web application for university with **2,000+ active users** using Spring MVC and PostgreSQL, implementing shortest path algorithms for route optimization between **30+ campus buildings**
- Built RESTful APIs with basic authentication and input validation, integrated Google Maps API for location services, achieving **consistent sub-second response times** for route calculations
- Participated in agile development practices including daily standups and sprint retrospectives, delivered **assigned features on schedule** while learning best practices for version control and testing

KEY PROJECT

IntelliFlow AI Platform - Enterprise-Grade Fintech Infrastructure ⬡   **2025**

- **Benchmarked** ML+LLM fraud API to **~55ms p95 latency** under **20 concurrent requests** and sustained **414 RPS (0 errors)** on an **8-core/16GB system**, validating efficient event-driven design and observability stack with minimal resource footprint
- **Deployed** containerized services via **Docker/Kubernetes** with **Terraform IaC**, establishing **comprehensive monitoring and alerting (Prometheus/Grafana)** and sustaining **sub-100ms latency across core APIs**
- **Built** a real-time **fraud detection platform** with automated ML pipelines (feature engineering, model retraining), integrating **security best practices** (JWT, rate limiting) and **automated CI/CD workflows** for reliable releases
- Advanced fraud detection using **Ollama-hosted Mistral LLMs** for intelligent multi-factor verification, designing architecture to reduce false positives while maintaining **real-time processing speeds** for enhanced customer experience

TECHNICAL SKILLS

Programming Languages:	Java, Python, JavaScript, TypeScript, SQL, Bash
Frameworks & Libraries:	Spring Boot, Spring Cloud, React, Node.js, Hibernate, JUnit, PyTest, MLflow, Tailwind CSS
Databases & Messaging:	PostgreSQL, MongoDB, MySQL, Redis, Apache Kafka, RabbitMQ, Elasticsearch
Cloud & DevOps:	AWS (EKS, EC2, S3, Lambda, RDS), Azure, Docker, Kubernetes, Terraform, Helm, Jenkins, Linux, Nginx, Ansible
GenAI & Machine Learning:	LLMs, Prompt Engineering, AI Model Integration, Amazon Q
Tools & Infrastructure:	Git, Version Control, Maven, Gradle, SonarQube, Prometheus, Grafana, IntelliJ IDEA, VS Code, CDN