Sanjay Uppala

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SUMMARY

Full Stack Developer with 4+ years of experience **building secure, scalable enterprise applications using** React, Java (Spring Boot), and cloud-native architectures **across financial services and regulated domains. Proven track record of delivering** AI-enabled platforms and high-throughput backend systems**, reducing reporting cycles by** 40% **and improving transaction processing efficiency by** 30%**. Experienced in designing production-ready solutions with strong emphasis on** security, performance optimization, and regulatory compliance **in large-scale US enterprise environments.**

SKILLS

Programming Languages: Java (11–17), TypeScript, JavaScript (ES6+), Python, SQL

Frontend Development: React.js, TypeScript, Redux, Component-Driven UI Architecture, SPA Development, Responsive Design, HTML5, CSS3

Backend Development: Java Spring Boot, Spring MVC, RESTful APIs, Microservices Architecture, Batch Processing, API Orchestration

Databases: PostgreSQL, Oracle, MySQL, Redis

Cloud & DevOps: AWS (EC2, S3), Azure, Docker, Kubernetes, Jenkins, CI/CD Pipelines, Git

Data Handling & APIs: REST, JSON, OAuth 2.0, JWT Authentication, Role-Based Access Control (RBAC), API Security

Messaging & Distributed Systems: Apache Kafka, Event-Driven Architecture, Asynchronous Processing

AI & Intelligent Systems: LLM Integration, AI-Assisted Narrative Generation, Model Governance, Human-in-the-Loop Validation, Python-based ML Services

Version Control & Collaboration: Git, Agile/Scrum, Jira, Confluence, Cross-Functional Collaboration

Testing & Quality Assurance: JUnit, Mockito, API Testing, Integration Testing

Other Tools & Technologies: Hibernate/JPA, Spring Security, Redis Caching, Performance Optimization, IntelliJ IDEA, VS Code

EXPERIENCE

Full Stack Developer | State Street | USA **Jan 2025 – Present**

- Developed **React + TypeScript analyst dashboards** for portfolio risk visualization and AI-generated insights, enabling portfolio managers to validate narratives faster and reducing manual reporting effort by **40%** across investment operations.
- Architected **Java 17 Spring Boot services** to aggregate custody, exposure, and risk data from multiple upstream systems, improving data consistency and supporting high-volume portfolio analytics at enterprise scale.
- Integrated **LLM-powered narrative generation services** with Java APIs to convert quantitative risk metrics into explainable natural-language summaries, improving interpretability for compliance and investment stakeholders.
- Implemented **model governance and auditability controls** including version tracking, confidence scoring, and approval workflows, ensuring AI outputs met internal risk management and regulatory compliance standards.
- Built **event-driven transaction monitoring pipelines** using **Kafka and Spring**, enabling near-real-time exception detection and reducing custody transaction resolution time by **30%**.
- Designed **secure access and entitlement frameworks** using **Spring Security, OAuth 2.0, and RBAC**, protecting sensitive financial data while supporting role-based workflows for operations and compliance users.
- Optimized backend throughput and reliability using **batch processing, caching (Redis), and database tuning** on **PostgreSQL/Oracle**, increasing system stability during peak settlement and reporting windows.
- Deployed and supported cloud-native applications using **Docker, Kubernetes, and AWS**, collaborating with DevOps teams to streamline CI/CD pipelines and deliver production releases with minimal operational risk.

Full Stack Developer | Persistent Systems | India **May 2020 – Aug 2023**

- Designed and delivered **enterprise-grade React applications** using Hooks, Redux, and modular component architecture, improving page load performance by **35%** and increasing end-user task completion efficiency across banking and insurance platforms.
- Engineered **Java Spring Boot microservices** supporting high-volume transaction processing and policy workflows, enabling horizontal scalability and reducing backend processing latency by **30%** through optimized REST API design.
- Implemented **secure authentication and authorization frameworks** using **Spring Security, OAuth 2.0, JWT, and RBAC**, ensuring compliance with financial and insurance regulatory standards while eliminating unauthorized access incidents.
- Optimized **data persistence layers** with **Hibernate/JPA, PostgreSQL, and Oracle**, applying indexing and query tuning strategies that reduced database response times by **25%** and improved system reliability during peak usage.
- Developed **real-time operational and analytics dashboards** using React and Java APIs, enabling business and support teams to monitor KPIs, system health, and user activity, reducing issue resolution time by **40%**.
- Integrated **asynchronous processing and messaging workflows** using **Kafka/RabbitMQ and Spring Scheduler**, improving system throughput and supporting near-real-time updates for claims, notifications, and operational metrics.
- Containerized applications using **Docker** and supported cloud deployments on **AWS**, collaborating with DevOps teams to enable CI/CD pipelines with Jenkins and Git, increasing release frequency while maintaining production stability.
- Collaborated cross-functionally with product owners, QA, and cloud engineers to deliver production-ready full stack solutions, contributing to **on-time project delivery** and improved customer satisfaction across multiple enterprise clients.

EDUCATION

Master's in Data Science **| DePaul University | Chicago, IL** **Sep 2023 – May 2025**