Pranay Kumar Gattu

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PROFESSIONAL SUMMARY

Experienced Software Engineer with 3+ years of expertise and strong background in banking and telecommunications domains. Skilled in Java, Spring Boot, Python, microservices, API integration, and performance optimization. Expertise in security compliance, fraud detection, and cloud solutions (AWS), with a proven track record in Agile development, system enhancements, and deploying scalable applications.

PROFESSIONAL EXPERIENCE

Software Engineer, Citibank   Mar 2022 - Jan 2023

Java SE, Oracle 11g, API Development, Junit, OAuth, Linux, Shell Scripting, Git, Spring Boot, React, Python

- Developed and enhanced **payment microservices** using **Java 8+, Spring Boot**, and **REST APIs** to ensure secure, high-performance transaction processing in a large-scale banking environment.
- Worked on **feature enhancements** and **bug fixes** in existing systems, leveraging **Spring Boot Actuator** and **ELK Stack (Elasticsearch, Logstash, Kibana)**, reducing production incidents by **30%** over six months.
- Maintained **API integrations** with **ACH, SWIFT, Fedwire**, and **RTP**, utilizing **Spring WebClient**, **OAuth2**, and **Apache Camel** for secure, compliant payment processing and optimized system performance.
- Resolved **transaction failures, latency issues**, and **API bottlenecks**, improving response times by **25%** through **JProfiler** and **Redis caching** strategies, and optimized database queries using **JPA/Hibernate** with **Oracle SQL**.
- Contributed to **fraud detection** and **security enhancements** by updating **Drools** rules and integrating **Apache Kafka** for real-time alerts, while ensuring compliance with **PCI-DSS** through **AES/RSA encryption** and **Spring Security**.
- Wrote **unit and integration tests** using **JUnit** and **Mockito**, achieving **95%+ test coverage**, and automated deployments with **Jenkins CI/CD** in **Kubernetes** using **Helm charts**.
- Collaborated in **Agile sprints**, participated in **code reviews**, and used **JIRA** and **Git** for managing tasks and ensuring high-quality software development.

Associate Software Engineer, Telefonica GmbH   Dec 2019 - Mar 2022

Java, Oracle 11g, Spring Framework, Angular, Linux Shell Scripting, AWS - EC2, ELB, IAM, EBS, RDS, Angular

- Contributed to the migration of 6 - Java-based **microservices** to **AWS Cloud** as a team member, focusing on infrastructure optimization and ensuring a smooth transition.
- Assisted in developing dynamic web applications using **Java**, **J2EE**, and **Spring MVC**, contributing to a **10% reduction** in server-side processing time of telecommunications domain.
- Optimized database operations using **PL/SQL** and **SQL Server**, improving query performance by **20%** in critical use cases.
- Contributed to implementing **JMS** messaging solutions for reliable communication between upstream and downstream services
- Worked along with the cross-functional teams to deliver features on time during **Agile sprints**, achieving a **100%** success rate in meeting sprint goals.
- Configured and deployed web applications on **Apache Tomcat**, ensuring stable performance and high availability.

SKILLS

Languages / Frameworks/Technologies: Java, Spring Boot, J2EE, JPA, Hibernate, Python, C, C++, JavaScript, TypeScript, Angular, Vue, React Redux, HTML5, CSS3, Kafka, Log4j.

Web Services and APIs: SOAP, RESTful APIs, Postman

CI/CD/Tools/DB/Cloud: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, Git, GitHub, Gitlab, Jenkins, Maven, Tomcat, Jest, Selenium, AWS (S3, EC2, ELB, SQS, EKS, DynamoDB, Lambda), Docker, Kubernetes, Figma, Maven, WebLogic

Methodologies and Practices: Agile Operating Model, Scrum, Test-Driven Development (TDD)

Machine Learning/ AI: TensorFlow, PyTorch, Pandas, Anaconda, Google Collab, NLP, RNN, CNN

Soft Skills: Creativity, Problem-Solving, Leadership and Team collaboration, excellent written and verbal communication.

PROJECTS

Peers – Social Media Application

- **Developed a full-stack social media application** using **Java (Spring Boot)** for the backend and **React.js** for the frontend, implementing RESTful APIs for user authentication, posts, comments, and real-time messaging.
- **Integrated scalable technologies** including **PostgreSQL, Redis** for caching**, WebSocket's for real-time chat, and AWS - S3 for media storage**, ensuring high performance and reliability.
- **Implemented security best practices** with **Spring Security (JWT & OAuth), Docker** for containerization**, and CI/CD pipelines (GitHub Actions)** to streamline deployment and enhance system security.

EDUCATION

Master of Computer and Information Science, Cleveland State University (**CGPA – 3.83**)   Jan 2023 - Dec 2024

Relevant Coursework: Advanced OS, Analysis of Algorithms, Cybersecurity, Machine Learning, AI, Computer Networks

CERTIFICATIONS

- Java Full Stack Development Using Angular (Jan 2020)   Tech Mahindra Ltd
- Oracle Database Programming with SQL (May 2019)   Oracle Academy