

ABHYUSH RAJAK

Software Engineer

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SUMMARY

Full Stack Software Engineer with **4+ years of experience** delivering enterprise-grade web applications for payments and financial platforms in highly regulated environments. Proven track record of designing scalable backend services, integrating modern frontend applications, and supporting secure, high-performance systems across the full software development lifecycle. Experienced in improving application reliability, performance, and maintainability through clean architecture, efficient data processing, and proactive production support. Strong background in implementing authentication, authorization, and data protection practices to meet industry compliance standards. Effective team contributor in Agile environments, collaborating closely with product, design, and QA teams to deliver robust, business-aligned solutions.

SKILLS

Programming Languages: Java, Python, JavaScript, SQL

Backend Frameworks: Spring Boot, Spring MVC, AOP, Spring Security, Hibernate, Flask, Pandas, NumPy, PySpark, Django

Frontend: React.js, Node.js, Redux, JavaScript, HTML5, CSS3, AJAX

APIs & Architecture: RESTful APIs, , FastAPI, GraphQL, Microservices, WebSockets, JSON

Cloud & DevOps: AWS (EC2, S3, RDS), GCP, Docker, Kubernetes, Jenkins, GitLab CI/CD, GitHub Actions, Terraform, Helm

Databases: PostgreSQL, MySQL, MongoDB, Redis, Oracle, Snowflake

Security: OAuth2, JWT, RBAC, HTTPS, OWASP Top 10, PCI DSS

Testing & QA: JUnit, Mockito, PyTest, Selenium, Postman, JMeter

Monitoring & Logging: Prometheus, Grafana, ELK Stack, Splunk, Datadog, Nagios

AI/ML & NLP: Scikit-learn, TensorFlow, NLP, RAG, LLM Integration (OpenAI, LangChain)

Agile & Tools: Agile, Scrum, JIRA, Confluence, Git

WORK EXPERIENCE

Visa

Software Engineer

California, USA

Aug 2024 – Present

- Developed end-to-end full-stack features for Visa Direct and Merchant platforms using React.js (functional components, hooks) on the frontend and Java 11, Spring Boot, Spring MVC on the backend, supporting 50,000+ daily payment and merchant-search transactions.
- Built responsive React.js UI components using Redux Toolkit for global state management and Axios for API integration, reducing redundant backend API calls and improving frontend data consistency.
- Designed and implemented RESTful APIs using Spring Boot, Hibernate (JPA), and PostgreSQL, enabling secure, low-latency communication between frontend and backend services.
- Secured APIs using Spring Security with OAuth2 and JWT, and implemented mutual TLS (mTLS) for partner-facing services to ensure PCI DSS compliance.
- Improved frontend performance by implementing code splitting, lazy loading (React.lazy), and memoized selectors in Redux, reducing initial page load time by 20%.
- Optimized backend performance by introducing Redis caching, HikariCP connection pooling, and asynchronous processing using CompletableFuture, reducing average API response time from 450ms to 320ms.
- Containerized frontend and backend services using Docker and deployed them to Kubernetes (EKS) with rolling updates, maintaining 99% uptime for user-facing applications.
- Built CI/CD pipelines using Jenkins for backend services and GitLab CI for frontend builds, automating unit tests, Docker image creation, and Kubernetes deployments.
- Implemented centralized logging using the ELK Stack (Elasticsearch, Logstash, Kibana) and metrics monitoring with Prometheus and Grafana, reducing production incident resolution time to under 15 minutes.
- Developed unit and integration tests for backend services using JUnit and Mockito, and automated UI regression tests using Selenium, reducing post-release defects by 20%.
- Collaborated with UI/UX designers, product managers, and QA teams in Agile Scrum, delivering 8+ major full-stack enhancements while maintaining 99% SLA compliance.

Intuit

Full Stack Software Developer

India

Jul 2020 – Jun 2023

- Designed and developed full-stack financial applications using React.js on the frontend and Java Spring Boot and Python Flask on the backend to support AI-driven personal finance features.
- Built React.js dashboards using Redux for state management and Material UI for component styling, enabling real-time

visualization of transactions, spending patterns, and AI-generated insights.

- Developed RESTful backend services using Spring Boot and Flask, reducing API latency by 25% and improving frontend responsiveness for high-traffic workflows.
- Integrated frontend applications with OAuth2 and JWT-secured APIs, ensuring secure handling of sensitive financial and user identity data.
- Designed and optimized PostgreSQL schemas for transactional data and MongoDB collections for semi-structured analytics data, improving query performance by 20% through indexing and query tuning.
- Implemented AI-driven expense categorization and recommendation modules using Python, scikit-learn, and NLP techniques, integrating prediction results directly into frontend dashboards.
- Built real-time data ingestion pipelines using Kafka producers/consumers, Python, and AWS S3, enabling near real-time updates on frontend analytics dashboards.
- Deployed full-stack services on AWS EC2, S3, and RDS, containerized applications using Docker, and automated build and deployment pipelines with Jenkins.
- Developed unit and integration tests using JUnit and PyTest, and automated frontend UI tests using Selenium, achieving 90%+ test coverage across core workflows.
- Monitored application health and infrastructure using Prometheus and Nagios, proactively identifying performance bottlenecks and reducing downtime by 40% year-over-year.
- Delivered 15+ full-stack feature releases through Agile sprint planning, backlog grooming, and cross-team collaboration with product and design teams.

EDUCATION

Master of Science Computer Science

California State University, Long Beach, California, USA

Bachelor of Technology in Computer Science and Engineering

Hitkarni College of Engineering & Technology, Jabalpur, MP, India

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- Databases and SQL for Data Science with Python