Kalyani Joshi

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PROFESSIONAL SUMMARY

Results-driven Software Developer with 4+ years of experience building and maintaining scalable backend systems using Java, Spring Boot, and REST APIs. Currently pursuing an MS in Software Engineering at Arizona State University (GPA: 3.85). Adept at full-cycle development, test automation, CI/CD, and collaborating in Agile teams. Seeking a full-time opportunity to contribute strong backend expertise, cloud knowledge, and a passion for clean, reliable software to enterprise application development and cross-functional initiatives.

EDUCATION

Master of Science, Software Engineering Jan 2024 – Dec 2025
Arizona State University, Tempe Current GPA: 4.0
Relevant Coursework: Advanced Data Structures & Algorithms, Software Verification & Testing, Software Security, Software Project, Processes & Quality Management, Introduction to Software Engineering

SKILLS PROFILE

Languages & Frameworks: Java, Python, JavaScript, C, C++, React, Spring Boot, REST APIs, SOAP, Microservices, Oracle SQL
Backend & Cloud: API Development, Message Queues, Scalable System Design, JWT, OAuth 2.0, Docker, Kubernetes, AWS (EC2, RDS, S3)
Testing & QA: JUnit, Karate, Cucumber, Selenium, Postman, TDD, BDD, SonarQube, Veracode
Data & ML: MySQL, PostgreSQL, MongoDB, GraphDB, Pandas, NumPy, TensorFlow, OpenCV, ETL
DevOps & Tools: Git, GitHub, Jenkins, Gradle, Ansible, Shell Scripting, CI/CD, Linux, Jira, Confluence
Soft Skills: Agile Development, Problem Solving, Collaboration, Mentoring & Code Reviews, Technical Documentation

SOFTWARE ENGINEERING EXPERIENCE

Barclays, Pune, India: Software Developer July 2019 – Nov 2023

- Developed and maintained scalable backend APIs for high-volume financial platforms using **Java (Spring Boot)**, **REST APIs**, and **microservices**.
- Delivered over **20 production-grade APIs** for secure money transfer, account services, and transaction tracking, integrated with **MySQL, PostgreSQL, MongoDB**.
- Led secure API implementation using **OAuth 2.0**, **JWT**, and **JWS**, improving regulatory compliance.
- Debugged and resolved **critical production issues** involving API failures, reducing downtime by 20%.
- Collaborated with cross-functional teams (Infra, Product, QA) to enhance **money movement infrastructure** and system observability.
- Used **AWS, Docker, Kubernetes** for CI/CD, containerized deployments, and cloud resource management.
- Drove test automation with **JUnit** and **Karate**, achieving over 95% coverage and reducing regression bugs.
- Mentored junior developers, conducted peer code reviews, and enforced engineering best practices.
- Integrated **monitoring/logging tools** to improve operational visibility of transaction systems.

RELEVENT PROJECTS

Self-Project, Spend Secure – Smart Expense Tracker with Fraud Detection March 2023 – Present

- Building a full-stack web application to securely track and analyze user expenses with integrated fraud detection features.
- Implements user authentication using JWT, and exposes RESTful APIs for dynamic expense management.
  Technologies used: Spring Boot, React, JWT, REST API, MySQL, AWS EC2, Maven, Postman

Arizona State University, Crime Data Visualization Platform Aug 2024-Nov 2024

- Built a crime data dashboard using React and Flask, displaying real-time crime statistics.
- Developed REST API to fetch data from GraphDB, improving query performance.
- Gained hands-on experience with data cleaning, processing and enrichment as part of this project.
  Technologies used: React, Flask, GraphDB, REST API, Python, Pandas, JavaScript

PUBLICATION AND CONFERENCE

Real Time Facial Expression Recognition using Deep Learning
International Conference on Communication and Information Processing (Elsevier-SSRN, ICCIP-2019) May 2019

- Engineered an AI driven emotion detection system utilizing deep learning and convolutional neural networks, specifically designed to discern human facial expression.
  Technologies used: Python, TensorFlow/Keras, OpenCV, CNN, Deep Learning