MAYUR SHINDE
Software Engineer

Los Angeles, CA
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LinkedIn
GitHub
Portfolio

EXPERIENCE

Software Engineer   **Feb 2024 — Present**
Esri   Redlands, CA

- Maintained and optimized distributed backend services in **Java deployed on AWS EC2**, ensuring high availability and scalability to handle **10k+ requests/sec** in production.
- Architected and scaled a **distributed orchestration system on AWS (EC2, S3, DynamoDB, SQS)**, enabling reliable execution of **1,000+ concurrent workflows/day** with built-in automatic recovery and fault-tolerant locking mechanisms.
- Reduced concurrency-related bugs by implementing **distributed locking using DynamoDB** conditional writes, enhancing consistency and reliability in multi-tenant systems.
- Collaborated cross-functionally with **DevOps and product teams** to identify system bottlenecks and implement scalable solutions aligned with SLAs.
- Drove test coverage from **30% → 85%**, improving system reliability and reducing post-deployment bugs by 50%; authored technical documentation and deployment guides that cut onboarding time by 50%.

Graduate Research Assistant   **Aug 2022 — Dec 2023**
Rochester Institute of Technology   Rochester, NY

- Built and deployed full-stack features for NGAFID, including **REST APIs in Java, optimized MySQL schemas, and React-based UI components**, enabling users to analyze millions of flight records efficiently.
- Designed a **3D flight visualization system using Cesium.js** and implemented advanced analytics on flight telemetry, **boosting platform engagement by 30%** and expanding aviation safety research capabilities.

Software Engineer Intern   **May 2022 — July 2022**
ESRI   Portland, OR

- Automated setup of **GitHub Action** runners on Linux servers using Ansible, standardizing CI environments across development teams.
- Improved CI/CD performance by **30%** and integrated Vault for secure secrets management, reducing manual effort and strengthening pipeline security.

Associate Consultant   **Feb 2019 — July 2021**
Capgemini   Mumbai, India

- Developed in **Spring Boot, Java, Angular, MySQL** to meet design specifications and user requirements to deliver high quality applications within specified deadline.
- Implemented and maintained **CI/CD** pipelines using **Jenkins** for code quality and rapid deployment, increased efficiency of the team by 20%.
- Collaborated with clients and project management to gather requirements and participated in development of automation projects using **Python and Machine Learning** algorithms which cumulatively led to reduction of **10 Full-Time Equivalent**.
- Served as subject matter expert for the projects, delivering comprehensive knowledge transfer sessions to multiple teams and newly joined team members.

TECHNICAL SKILLS

Programming Languages	Java, Python, SQL, Shell Script, JavaScript
Backend & Frameworks	Spring MVC, JAX-RS, Jersey, Jetty, Tomcat, REST API's, Microservices, FastAPI, React
Cloud & Infrastructure	AWS (EC2, S3, Lambda, DynamoDB, API Gateway, SQS), Docker, Kubernetes, Jenkins
Databases	MySQL, DynamoDB, MongoDB, Neo4j
Other tools	Git, Gradle, Maven, Linux, CI/CD pipelines, Monitoring (CloudWatch, VisualVM)

PROJECTS

Deep Neural Networks in Java | *Java*   **Jan 2023 — May 2023**

- Implemented core ML architectures (FFN, RNN with LSTM/GRU, CNN) and training algorithms (backpropagation, batch normalization, dropout) fully in Java, achieving 98% accuracy on MNIST, CIFAR-10, and Iris.
- Demonstrated ability to design framework-independent deep learning systems by optimizing numerical stability and memory efficiency without external ML libraries.

Serverless Notes Application | *Java, AWS (API Gateway, Lambda, DynamoDB), Angular*   **Nov 2023 — Dec 2023**

- Built a scalable full-stack application with Angular frontend and AWS serverless backend (Java 17 + DynamoDB + API Gateway), supporting real-time secure note-taking and user authentication.
- Automated cloud infrastructure provisioning via AWS SAM templates (IaC), ensuring cost-efficient deployments and production-grade scalability.

EDUCATION

Master of Science, Computer Science, Rochester Institute of Technology   **Aug 2021 — Dec 2023**
Coursework : Advance Object-Oriented Programming Concepts, Foundation of Algorithms, Introduction to Big Data, Advance Graph Database, Big Data Analytics, Neural Networks, Introduction to Computer Networks.

Bachelor of Engineering, Electronics and Telecommunication, University of Mumbai   **Aug 2014 — Jun 2018**