

# MAYUR SHINDE

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## EXPERIENCE

<b>Software Engineer</b> Esri	Feb 2024 — Present Redlands, CA
<ul style="list-style-type: none"><li>Engineered high-throughput Java backend services on AWS (EC2, S3, ElastiCache), optimizing multi-region architecture to sustain 10k+ requests/sec with low latency.</li><li>Designed and implemented improvements to 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.</li><li>Reduced concurrency-related bugs by implementing distributed locking using DynamoDB conditional writes, enhancing consistency and reliability in multi-tenant systems.</li><li>Identified and resolved scalability bottlenecks in collaboration with DevOps, ensuring 99.99% availability for customer-facing geospatial data services.</li><li>Elevated system reliability by driving test coverage from 30% to 85% and establishing CI/CD quality gates, resulting in a 50% reduction in post-deployment incidents.</li></ul>	
<b>Graduate Research Assistant</b> Rochester Institute of Technology	Aug 2022 — Dec 2023 Rochester, NY
<ul style="list-style-type: none"><li>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.</li><li>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.</li></ul>	
<b>Software Engineer Intern</b> Esri	May 2022 — July 2022 Portland, OR
<ul style="list-style-type: none"><li>Automated setup of GitHub Action runners on Linux servers using Ansible, standardizing CI environments across development teams.</li><li>Improved CI/CD performance by 30% and integrated Vault for secure secrets management, reducing manual effort and strengthening pipeline security.</li></ul>	
<b>Associate Consultant</b> Capgemini	Feb 2019 — July 2021 Mumbai, India
<ul style="list-style-type: none"><li>Designed and deployed Python automation scripts utilizing ML algorithms to process complex datasets, replacing 10 FTEs worth of manual work and saving hundreds of operational hours annually.</li><li>Engineered the backend for a mission-critical KPI Analytics Dashboard using Spring Boot and Java, enabling upper management to visualize real-time business metrics across multiple client portfolios.</li><li>Modernized the deployment strategy by implementing Jenkins CI/CD pipelines, reducing release cycle overhead by 20% and ensuring consistent code quality for the analytics platform.</li><li>Served as the Backend Subject Matter Expert (SME), leading code reviews and knowledge-transfer sessions to accelerate the onboarding of 3 new developers.</li></ul>	

## TECHNICAL SKILLS

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

## PROJECTS

<b>Serverless Microservices Architecture and IaC</b>   Java, AWS (API Gateway, Lambda, DynamoDB), Angular	Nov 2023 — Dec 2023
<ul style="list-style-type: none"><li>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.</li><li>Automated cloud infrastructure provisioning via AWS SAM templates (IaC), ensuring cost-efficient deployments and production-grade scalability.</li></ul>	
<b>Deep Neural Networks in Java</b>   Java	Jan 2023 — May 2023
<ul style="list-style-type: none"><li>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.</li><li>Demonstrated ability to design framework-independent deep learning systems by optimizing numerical stability and memory efficiency without external ML libraries.</li></ul>	

## EDUCATION

<b>Master of Science, Computer Science</b> , Rochester Institute of Technology	Aug 2021 — Dec 2023
<b>Bachelor of Engineering, Electronics and Telecommunication</b> , University of Mumbai	Aug 2014 — Jun 2018