

## EXPERIENCE

### Software Engineer Esri

Feb 2024 — Present  
Redlands, CA

- Building server-side **Java** components and web services to power user experience and geospatial workflows for ArcGIS Online.
- Continuously improve and maintain high-performance backend services in Java (Jersey and Jetty) to support a **distributed system** handling over **5,000+ requests/second**.
- Integrated AWS services including **S3** for file storage, **DynamoDB** for NoSQL data management, **SQS** for decoupled messaging, and **EC2** for compute scalability.
- Optimize service performance through profiling, caching, and asynchronous processing using SQS and multi-threading techniques.
- Ensured system reliability and observability through logging, monitoring (e.g., **CloudWatch**).

### Graduate Research Assistant Rochester Institute of Technology

Aug 2022 — Dec 2023  
Rochester, NY

- Supporting full-stack development for **NGAFID** by delivering **React** components, creating RESTful API in **Java**, modifying **MySQL** database tables, and contributing to multiple user facing features.
- Designed and implemented new 3D visualization page for displaying flight paths using JavaScript library like Cesium.js.
- Developed innovative analytics features utilizing flight data, leading to a 30% increase in user engagement.

### Software Engineer Intern ESRI

May 2022 — July 2022  
Portland, OR

- Developed and implemented automation scripts using Ansible to install **GitHub Action** runners on existing and new servers.
- Engineered efficient GitHub Actions workflows to automate the publishing of **Docker** images in a private docker registry, resulting in a 40% reduction in manual intervention and ensuring seamless continuous integration and delivery processes.
- Upgraded existing CI/CD pipelines for improving performance by 30% and fixed security related issues by integrating Vault secret storage engine.

### Associate Consultant Capgemini

Feb 2019 — July 2021  
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%.
- Utilized **JUnit and Selenium** to create test cases for Java and UI components respectively to perform unit testing.
- 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.

## 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.  
**GPA : 3.54**

### Bachelor of Engineering, Electronics and Telecommunication, University of Mumbai

Aug 2014 — Jun 2018

## TECHNICAL SKILLS

<b>Languages</b>	Java, Python, Go, SQL, Shell Script, HTML5, CSS3, JavaScript, MongoDB, Cypher
<b>Web Tools &amp; Frameworks</b>	Spring Boot, React, Angular, REST, SOAP, XML, JSON, Flask, Pandas
<b>DevOps Tools</b>	Git, SVN, Jenkins, Docker, GitHub Actions, Maven, Gradle, Linux, Make
<b>Cloud Tools</b>	AWS (Lambda, S3, DynamoDB, API Gateway, EC2)
<b>Databases</b>	Relational-DBMS (MySQL, Oracle), Graph Database (Neo4j), NoSQL(MongoDB)

## PROJECTS

### Deep Neural Networks in Java | Java

Jan 2023 — May 2023

- Designed and implemented Feed Forward, Recurrent and Convolutional neural networks along with backpropagation from scratch using Java.
- Added memory cells like LSTM, GRU for RNN and utilized techniques such as batch normalization and dropout for CNN.
- Achieved about 98% accuracy on datasets like MNIST, CIFAR-10 and Iris.

### Notes Application with AWS | Java, AWS (API Gateway, Lambda, DynamoDB), Angular

Nov 2023 — Dec 2023

- Developed a full-stack application that allows users to take notes via a web application created in Angular featuring secure user authentication and real-time updates.
- Leverage AWS API Gateway and implemented a cost effective, efficient serverless backend utilizing AWS Lambda with Java 17 and AWS DyanamoDB.
- Deployed all AWS resources using SAM template as Infrastructure as Code(IaC) tool.