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# MAYUR SHINDE

Software Engineer

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## Experience

**Graduate Research Assistant** **Aug 2022 — Present**
Rochester Institute of Technology 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.
- Assisting in applied machine learning and neuroevolution research for Distributed Data Science Systems Lab.

**Software Engineer Intern** **May 2022 — July 2022**
ESRI 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** **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%.
- Utilized **Mockito 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 : 3.53**

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

## Technical Skills

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|---|---|
| **Languages** | Java, Python, SQL, Shell Script, HTML5, CSS3, JavaScript, MongoDB, Cypher |
| **Web Tools & Frameworks** | Spring Boot, React, Angular, REST, SOAP, XML, JSON, Flask, Pandas, Apache Kafka |
| **DevOps Tools** | Git, SVN, Jenkins, Docker, GitHub Actions, Maven, Gradle, Linux, Make |
| **Cloud Tools** | AWS (Lambda, S3, DynamoDB, API Gateway) |
| **Databases** | 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.

**KPI Analyzer** | *Java, Spring Boot, MySQL, React* **July 2019 — July 2020**

- Worked in an agile team of 10 to develop RESTful web services and dashboards using Angular and d3.js for a business KPI's analysis tool, that reduced time taken by business heads for performance analysis by over 50%.
- Used Selenium to create UI testing infrastructure that reduced number of bugs reported by users by 15%

**Enhanced Cleaning, Clustering, and Visualization for GPS Dataset** | *Python* **Aug 2022 — Dec 2022**

- Implemented efficient multi-threaded data cleaning techniques on a large GPS dataset, boosting the cleaning process's efficiency by more than 70%.
- Successfully applied Hierarchical Agglomerative clustering algorithms to the cleaned data, identifying and analyzing the most frequently visited locations within the dataset.
- Utilized the obtained results to create a KML file, seamlessly integrating and visualizing the data on Google Earth, enhancing data representation and accessibility.