## JOSEPH MOHANTY

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EDUCATION

Aug 2023 - Dec 2024 Rice University

M.S in Computer Science (Data Science and Machine Learning) GPA: 3.7/4.0

Relevant Coursework: Machine Learning, Probabilistic Data Structures, Project Management

Manipal Institute of Technology Jul 2018 - Aug 2022 B. Tech in Computer Science (Minor: Computational Intelligence) GPA: 3.5/4.0

Relevant Coursework: Computer Networks, Operating Systems, Database Management

TECHNICAL SKILLS

**Programming Languages:** Python, Java, C/C++, JavaScript, Go

**Databases:** MS SQL Server, Oracle SQL DB, PostgreSQL, MongoDB

Libraries/Frameworks: PyTorch, TensorFlow, Django, Flask, Spring Boot, ReactJS, NodeJS, GraphQL, JUnit, Mockito

**DevOps and Tools:** CI/CD, GitHub Actions, Jenkins, Linux, Kafka, Kibana

Cloud Technologies: Heroku, GCP, AWS, Docker

EXPERIENCE

Austin, TX, USA Script Care, Ltd

Software Developer (Go, ReactJS, VueJS, GitLab, MySQL)

March 2025 - Present

Houston, TX, USA

Manipal, KA, India

• Built a GoLang API for automatic Tredium Web Service token password resets, including password generation, credential database updates, and Redis token cache refresh.

- Automated password resets for 100+ Tredium web service accounts across production and test environments.
- Minimized network latency and API calls, achieving 30% faster token retrieval with Redis token caching.

Rice University

Houston, TX, USA

Software Research & Development Intern (C++, CUDA, Python, GitHub Actions, LLMs)

May 2024 - Dec 2024

- Developed the **Ein-Summable** system for efficient machine learning tasks, optimizing tensor operations using MLIR and CUDA, achieving 30% faster computation.
- Integrated Llama 3 with CUDA for large language model inference, reducing latency by 40% on tasks.
- Facilitated the setup of CI pipelines, reducing deployment cycles by 50% and ensuring 95% code coverage.

**UBS** Software Engineer (Java, SpringBoot, Oracle SQL, Kafka, Shell Scripting)

Pune, MH, India Jul 2022 - Jul 2023

• Led bi-weekly code release activities; Deployed application enhancements; improving client satisfaction by 30%.

- Drove the design and implementation of Shell Scripts, reducing manual workloads by 15%.
- Collaborated on code reviews with cross-functional teams, fostering knowledge sharing and improving development speed by **20**%.

Software Engineering Intern (Python, Oracle SQL, Unix, Agile, Scrum)

Jan 2022 - Jun 2022

- Automated mapping of ESG files, reducing manual effort by 70%.
- Coordinated analysis of downstream data, uncovering key trends and insights; improving quality of deliverables by 60%.

## **NTT Data Payment Services**

Mumbai, MH, India

Product Engineering Intern (Java, JUnit, Mockito, SpringBoot, SonarQube)

Jan 2021 - Sept 2021

• Extraction of Merchant IDs using Python; Reduced errors in pre-processing by 80% by eliminating faulty IDs.

• Implemented Unit Tests for an Online Transaction Switch (OTS) and ensured code coverage to be greater than 90% using SonarQube.

## **PROJECTS**

Rice University **URL Shortener** 

- Implemented the backend using GoLang to deliver high-concurrency capabilities and efficient processing for handling heavy workloads, achieving reductions in latency.
- Engineered a high-speed URL retrieval and storage system by implementing MongoDB's horizontal scaling features, which enabled seamless handling of over 500 concurrent requests during peak traffic periods without performance degradation.
- Developed RESTful APIs for creating, retrieving, and managing shortened URLs, achieving a 99.9% uptime during stress testing with 1,000+ concurrent requests.