

JOSEPH MOHANTY

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EDUCATION

Rice University

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

Aug 2023 – Dec 2024

Houston, TX, USA

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

Manipal Institute of Technology

B.Tech in Computer Science (Minor: Computational Intelligence) GPA: 3.5/4.0

Jul 2018 – Aug 2022

Manipal, KA, India

Relevant Coursework: Computer Networks, Operating Systems, Database Management

EXPERIENCE

Script Care, Ltd

Software Developer (Go, Redis, ReactJS, GitLab, MS SQL)

Austin, TX, USA

March 2025 – Present

- Built GoLang APIs to **automate password resets** for Tredium, a pharmacy claims and management platform, implementing distributed locking to prevent race conditions, with secure password generation, and Redis token caching — **reducing token retrieval time**.
- **Developed features and resolved production issues** for EmpiRx Health's pharmacy benefits platform, managing incoming tickets and implementing enhancements to meet client requirements, consistently resolving high-priority issues within SLA and **reducing average resolution time by 15%**.

Rice University

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

Houston, TX, USA

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

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

Mumbai, MH, India

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.

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: GitHub Actions, Jenkins, Linux, Kafka, Kibana

PROJECTS

URL Shortener

Rice University

- 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**.