

Harshaa Vardaan T

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WORK EXPERIENCE

Morgan Stanley

Bangalore

Associate Software Developer

Aug 2023 – Present

- Designed and developed multi-tiered applications utilizing Spring Boot based microservices, Angular Frontend and DB2 following agile process and test-driven development (TDD)
- Collaborated with the team to implement high availability and real time solutions with Apache Kafka and Elasticsearch that decreased firm costs by \$100,000+ per year.
- Conducted load testing on applications, analyzed memory and CPU usage, and utilized flamegraphs to pinpoint bottlenecks in critical time-sensitive systems, improving system response time by 50%.
- Managed Jenkins CI/CD pipelines to automate and streamline the development process and reduce build time by 25%.

Morgan Stanley

Bangalore

Spring Intern

Jan 2023 – Jul 2023

- Designed and implemented a feedback system that reduced data generation time for model training from 2-3 hours to 5-10 minutes. This system also included a self-correcting mechanism to automatically fix defects and regressions in the ML model.
- Created a system for generating model metrics on the fly, enabling real-time tracking of model progress across code updates and new data, ensuring consistent performance and accuracy using Python, Pandas and SQL.
- Collaborated with the team to develop solutions for utilizing semi-structured data such as text, FPML, PDFs, and images, enhancing model accuracy and performance

OneArkive AS

Remote

Remote Developer

Jul 2021 – Feb 2022

- Automated 80% of manual monitoring by developing a Network Interface that aggregates data from various configurations, and provides real-time insights using machine learning models.
- Created a synthetic data generator to generate random data according to a variable set of rules to test the functionality of the main data conversion API and reduced manual testing time by 75%.
- Led the development, design, and implementation of a cutting-edge billing platform website using Spring Boot, React, and MongoDB, resulting in a streamlined and user-friendly interface

PROJECTS

TaskBoard - Task Management App

- Built an Android app using Kotlin enabling users to create boards, manage tasks, assign due dates, and collaborate in real time using Firebase services.
- Designed a modern UI with Jetpack Compose and followed clean architecture (MVVM) for maintainability and scalability.

Improving Network Digital Twins through Data-centric AI

- Researched the RouteNet-Fermi GNN model to evaluate its performance on 5G network scenarios with varying topologies, configurations, and flow-level traffic descriptions.
- Achieved a 45% reduction in MAPE score, optimizing the model's accuracy through a data-centric approach using Python.

EDUCATION

PSG College of Technology

Coimbatore, TamilNadu

B. Tech Information Technology, CGPA 8.85

2019 - 2023

SKILLS

Languages: Java, Python, SQL, Kotlin, Bash, C++

Technical Skills: Docker, Kubernetes, SpringBoot, Apache Kafka, ElasticSearch, Redis, Cucumber, Jenkins, Linux