Hari Priya Muppidi

linkedin.com/in/hari-priya-muppidi-9a5809336 | haripriyamuppidi02@gmail.com | (404)-558-9263 |
https://haripriya02.github.io/HARIPRIYA02/

EDUCATION

University of Georgia, School of Computing | Athens, GA
Master of Science in Computer Science | August 2023 – May 2025

- GPA : 3.6 / 4.0
- Coursework: Internet of Things (IoT) security, Privacy-preserving data analysis, Red-teaming Large Language Models (LLMs), Algorithms, Computer Networks, Database Management, Software Engineering

WORK EXPERIENCE

Custom Software Engineering Analyst
Accenture | **August 2021 – July 2023**
(Infrastructure Management - Middleware team for Ross Stores) | Hyderabad, India

- Developed an enterprise application using Java, Spring Boot, and JPA, integrating REST APIs and database solutions and led CI/CD automation using MyWizard DevOps to improve scalability and maintainability.

- Applied WebLogic and log4j vulnerability patches across 100+ middleware instances, enhancing security and compliance. Tested and validated patching automation scripts to mitigating application inaccessibility and downtime risks.

- Updated wildcard certificates on 50+ production and non-production servers across 20+ applications, ensuring secure communication and uninterrupted service.

- Led Disaster Recovery (DR) activities, successfully recovering 50+ servers during the August 2022 DR drill, reinforcing business continuity plans.

- Monitored WebLogic, Apache, and OHS alerts for 200+ application environments, ensuring high availability during critical sales periods (November & December). Coordinated with Backup and Storage teams to restore and rerun 50+ failed backup jobs, ensuring data integrity and system reliability.

- Updated configuration settings for 10+ non-production servers and troubleshot Angular redirects for the LWA application, improving accessibility and functionality.

Graduate Teaching Assistant
UGA School of Computing | **Spring 2024**

- Graded assignments and exams for 4 sections of CSCI 2670 – Theory of Computing, ensuring accurate evaluation and timely feedback.
- Resolved student queries related to computational theory, automata, and formal languages, enhancing conceptual understanding and problem-solving skills.
- Proctored exams, ensuring academic integrity and adherence to examination protocols.

PROJECT EXPERIENCE

Art Gallery Management System

- Developed a **modular system using React and Typescript and an API-driven backend** using **Flask** handling customer registrations, transactions, and event management.
- Designed a **PostgreSQL-based relational database schema**, ensuring **data integrity, indexing, and high availability**.
- Implemented **best practices for database management**, including version control and schema evolution.

Time series modeling for healthcare

- Identified the **top 5 most similar series** with **National ILI data** using **Dynamic Time Warping (DTW)-based similarity search**, optimizing **large-scale time-series datasets** for **improved pattern recognition using TimescaleDB.**
- Optimized **PatchTST and non-stationary transformer models** with **hyperparameter tuning**, reducing error rate by **25%** measured using **MAE, MSE, and SMAPE metrics**.
- Applied **advanced indexing, partitioning, and query optimization techniques**, reducing query latency by **50%** and improving real-time analytics performance.

Red Teaming Scientific LLM Agents

- **Conducted security analysis** on **LLM-based agents**, specifically targeting **Cactus (chemical property analysis) and PaperQA (document evidence retrieval)** to uncover vulnerabilities.
- **Evaluated robustness** against **prompt injection attacks** (tool misuse and context ignoring), revealing an **Attack Success Rate (ASR) of 50%**, highlighting critical security risks.
- Assessed **Detection Evasion Rate (DER)** to measure agents' ability to bypass security measures, contributing to **enhanced AI safety and mitigation strategies**.

TECHNICAL SKILLS AND CERTIFICATIONS

- **Languages**: Python, Java, JavaScript, React, Typescript, HTML, CSS, PHP, C
- **Technologies/Frameworks:** Spring Boot, Flask, MySQL, PostgreSQL, Junit, TimescaleDB, Git
- **Tools Used:** Grafana, Google Colab, MyWizards

Certifications

End to end data engineering project - LinkedIn
Java Full-stack web development - Accenture
Introduction to Databases – Meta
Cloud Computing Foundations – LinkedIn