

Hari Priya Muppidi

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EDUCATION

University of Georgia, School of Computing
Master of Science in Computer Science

Athens, GA
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 troubleshooted 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

- Achieved **sMAPE of 24.4%** and **23.7%** using the **Multi-scale PatchTST model**, outperforming the default PatchTST with top-5 DTW-aligned state-level and cross-disease datasets using TimescaleDB.
- Applied **self-supervised pretraining** using the Monash Time Series Forecasting Repository to enhance model initialization improving performance.
- Built an **automated hyperparameter tuner** to explore optimal configurations for both default and multi-scale models, achieving a solid **initial sMAPE of 25%** and enabling scalable, adaptive deployment in public health surveillance pipelines.

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