Mridini Thippisetty

Aurora, IL, 60504 | P: +1 6308352622 | mridinithippisetty@gmail.com | LinkedIn | Github | Portfolio

EDUCATION

UNIVERSITY OF WISCONSIN-MADISON Madison, WI

Bachelor of Science **Expected May 2025**

Major in Computer Science and Data Science; Certificate in Mathematics

Relevant Coursework: Algorithms, Operating Systems, Big Data Systems, Artificial Intelligence, Machine Learning, Computer Architecture, UI/UX Development, Software Engineering, Cryptography, Networks, Databases

TECHNICAL SKILLS

Languages: Java, Python, C/C++, HTML, CSS, JavaScript, SQL, R, MATLAB, Bash, Powershell, x86 Assembly

Databases/Frameworks/Libraries: PyTorch, scikit-learn, Flask, Spark, Node, React, SQL, MongoDB, SpecFlow, Selenium

Tools: Git, Kafka, Docker, Hadoop, Jenkins, Kubernetes, Elastic, Palo Alto, Jira, Confluence, GCP, AWS

WORK EXPERIENCE

UNIVERSITY OF WISCONSIN-MADISON OFFICE OF CYBERSECURITY Madison, WI

CSOC Student Intern Analyst Sep 2022 – Present

• Detect and analyze critical security threats daily using Palo Alto and Cisco Secure Endpoint alerts across campus networks
• Identified and recovered compromised 1,000s of devices through fraud detection and threat hunting via Elastic
• Conduct threat assessments on AWS and GCP accounts, applying detail-oriented analytical skills to safeguard sensitive internal University data and mitigate potential billing risks valued at $750,000+
• Manage and approve roles for students and faculty, ensuring proper security authorization for over 50,000 users by utilizing tools such as Jira, Perceptive Content, and Oracle

WELLS FARGO Charlotte, NC

CCIBT Technology Intern Jun 2024 – Aug 2024

• Developed quantitative risk models for the Vasara risk engine using Java, strengthening system performance for financial analysts
• Automated portfolio generation for 50,000+ interest rate swaps, integrating unit testing with TestNG to reduce report processing time by 50%, enhancing risk analysis and data insights for the quant team and key stakeholders
• Collaborated across teams to develop technical solutions with financial expertise in capital markets and corporate banking

MADISON EXPERIMENTAL MATHEMATICS LAB Madison, WI

Undergraduate Researcher Sep 2023 – May 2024

• Integrated machine learning algorithms with advanced numerical PDE methods to simulate particle systems for the continuum Calogero–Moser PDE using MATLAB and Simulink, improving accuracy in modeling turbulence and predictive capabilities

WELLS FARGO Charlotte, NC

CT Technology Intern Jun 2023 – Aug 2023

• Automated 250+ validation tests on internal OPQ loan application using Java and Python, boosting verification efficiency 10x
• Deployed HLMS delivery pipeline for Java and .NET upgrades and delivered key projections to senior leadership
• Collaborated daily with technical team and built a strong network of mentors in professional and software development

TRANSUNION Chicago, IL

Application Development Intern May 2022 – Aug 2022

• Automated maintenance for 50+ QECOP testing servers using Java, JavaScript, C, and Bash
• Utilized Agile workflow process for application development and gained mentorship from senior engineers
• Gained experience in DevOps and fin-tech applications including Jenkins and ReportPortal.io

PERSONAL PROJECTS

WALLSTREET TRADING BOT (Non-Profit Application) December 2024

• Developed a full-stack trading automation application integrating TradingView for real-time technical signals, IBKR API for order execution, and PostgreSQL for seamless data storage and management
• Implemented a Flask-based backend webhook listener with error handling and risk management logic
• Deployed the app on AWS using Docker, enabling scalable, parallel execution of trading bots for optimized performance

COOK SMART (Mad Data Hackathon) February 2023

• Collaborated with a team to build a meal-planning web app for busy college students, utilizing MongoDB, PyMongo, and Flask to parse ingredient data and generate food options based on diet preferences
• Designed an interactive UI with HTML, JS, and Bootstrap, and applied Python NLP techniques to generate word clouds from student survey data on current vs. ideal diets; presented the project to peers and judges at Mad Data Hackathon