

Mridini Thippisetty

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EDUCATION

University of Wisconsin-Madison

Bachelor of Science in Computer Science and Data Science; Certificate in Mathematics

Madison, WI

May 2025

EXPERIENCE

Office of Cybersecurity

Cybersecurity Operations Center Student Analyst

Madison, WI

Sept 2022 – Present

- Conduct daily threat analysis for 70,000+ devices using Elastic Search, mitigating malware and phishing attacks
- Scripted a Python tool to automate Cisco Secure Endpoint alert detection, enhancing response efficiency by 60%
- Lead incident response for compromised devices, cloud accounts, and security authorization across 50,000+ users

Wells Fargo

Software Engineer Intern

Charlotte, NC

June 2024 – Aug 2024

- Developed a financial risk model and internal APIs in Java to improve risk analysis for large trading portfolios
- Delivered a performance analytics tool, improving risk engine efficiency and report processing time by 20%
- Presented risk insights to senior leadership, driving financial strategy and risk management decisions
- Collaborated with quantitative analysts and senior engineers to integrate financial expertise into technical solutions

Madison Experimental Mathematics Lab

Undergraduate Researcher

Madison, WI

Sept 2023 – May 2024

- Leveraged machine learning and numerical methods in MATLAB to simulate particle systems and identify solutions for the Calogero-Moser PDE to advance turbulence modeling
- Presented findings at a symposium, earning departmental recognition for contributions to computational research

Wells Fargo

Software Engineer Intern

Charlotte, NC

June 2023 – Aug 2023

- Created a loan validation tool using Java and TestNG, automating and increasing validation efficiency by 40%
- Built a reporting dashboard using Python and SQL to deliver real-time insight into loan validation metrics
- Deployed a scalable pipeline for company-wide Java and .NET upgrades

TransUnion

Application Development Intern

Chicago, IL

May 2022 – Aug 2022

- Engineered automated maintenance solutions for 50+ QA testing servers using Java, C, and Bash
- Integrated automation scripts into Jenkins pipelines to streamline CI/CD workflows and improve server reliability
- Collaborated with senior engineers in an Agile environment and gained experience in DevOps practices and SDLC

PROJECTS

Super Traders | *Python, Flask, PostgreSQL, React, Docker, AWS*

- Developed a full-stack trading web application, containerized with Docker and orchestrated on AWS EC2
- Constructed Flask webhooks to parse TradingView alerts, store data in PostgreSQL table, and automate order submission via Alpaca REST API, ensuring real-time trade execution
- Designed a React UI admin dashboard to visualize account data, recent orders, and open positions, enhancing user experience and system monitoring

Cook Smart (Mad Data Hackathon) | *Python, MongoDB, JavaScript, Bootstrap, Git*

- Conceptualized a meal-planning web app for busy college students, utilizing MongoDB, PyMongo, and Flask to parse ingredient data and generate personalized meal suggestions
- Implemented Python NLP techniques to generate word clouds from student survey data on current vs. ideal diets
- Crafted an interactive UI with HTML, JS, and Bootstrap and presented to peers and judges at Hackathon

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R

Frameworks: React, Node.js, Flask, TestNG, Selenium,

Developer Tools: Git, Docker, AWS, GCP, Jira, Visual Studio, IntelliJ, Eclipse

Libraries: Pandas, NumPy, Matplotlib, scikit-learn, PyTorch, TensorFlow