Maria Madakuzhy

Address: 8 Mapleton Circuit, Mawson Lakes, SA 5095
Phone: 0468 452 114
Email: mariamadak04@gmail.com
LinkedIn: www.linkedin.com/in/maria-madakuzhy

Personal Statement

A motivated and diligent Computer Science undergraduate with a passion for technology, seeking a rewarding graduate position. Eager to build on a strong foundation in software development and problem-solving, while leveraging technical expertise and a collaborative mindset to contribute effectively to innovative teams. Committed to making a meaningful impact in the tech industry.

Education

Bachelor of Computer Science (Advanced), University of Adelaide
2023-2025
- GPA: 6.05/7.0
- Clubs: Computer Science Club, Competitive Programming Club
- Experience in coding in Python, C++, R, JavaScript, HTML/CSS, and SQL.

Experience

Data Science Intern, Aurizn, Adelaide
November 2024 – November 2025
- Developed an LLM-powered application using Python and LangChain, incorporating Retrieval-Augmented Generation (RAG) for improved contextual accuracy.
- Designed and deployed a LangChain-based chatbot that retrieves and synthesizes information from external knowledge sources.
- Built interactive data visualizations and exploratory dashboards using Matplotlib and Streamlit.
- Developed and deployed a full web application with Streamlit to support interactive analytics and user-friendly data insights.
- Participated in a company hackathon, presenting an original solution demonstrating innovation, problem-solving, and teamwork.
- Utilized cloud services including AWS SageMaker, AWS Bedrock, and S3 for model deployment and data storage.
- Deployed a Large Language Model on a local server using Docker, vLLM, Traefik, Prometheus, and Grafana for scalable inference and monitoring.
- Gained experience with geospatial data projects and map-based analysis using QGIS.

Microsoft Certified: Azure Fundamentals, Microsoft
July 2023
- Completed foundational training in cloud concepts, Azure services, security, and cost management.

Skills

Programming: Python, C++, R, JavaScript, HTML/CSS, MATLAB
Machine Learning & AI: LangChain, RAG, Large Language Models (LLMs), model deployment
Web Development: Streamlit, HTML/CSS, JavaScript
Data Visualization: Matplotlib, Streamlit (interactive dashboards)
Software Development: Full-stack development, chatbot development, API integration
Cloud & Deployment: AWS SageMaker, AWS Bedrock, S3, Docker, vLLM, Traefik, Prometheus, Grafana
Tools & Other: QGIS (geospatial analysis), Git, Linux
Soft Skills: Collaboration, teamwork, problem-solving, hackathon experience