Nathan Nguyen

0426100359 • nathannguyen1590@gmail.com • https://nathannguyen-dev.netlify.app/

Education

University of Technology, Sydney
Sydney, NSW
March 2020 - February 2024

Bachelor of Computer Science (Honours)
Graduated with First Class Honours
GPA: 6.09/7

Experience

Software Developer Intern
Chatswood, NSW
September 2024 - Present

Wired and Wireless Solutions International (WWSI)

- Contributed to the modernization of an e-commerce platform, improving user experience by implementing responsive design and cleaner navigation using HTML, CSS, JavaScript and Liquid.
- Developing a prototype for a Retrieval-Augmented Generation (RAG) query system integrated with LLMs, leveraging the Hugging Face API and FAISS for vector search.
- Deploying the RAG system using Flask to create an API endpoint, facilitating seamless integration with Dialogflow.

Peer Tutor
Sydney, NSW
February 2021 - December 2021

UTS Student Association (UTSSA)

- Provided peer tutoring for fellow students seeking additional support in programming related classes.
- Organized and conducted both in-person and online 1-on-1 tutoring sessions, assisting students with weekly lab tasks and assignments.

Projects

SearchForDev.com

- Developed a full-stack job board application using React, Material-UI, and Flask, incorporating AI-based job filtering to process up to 20,000 job listings monthly, surfacing 800+ truly entry-level roles.
- Integrated OpenAI APIs to automate the extraction, normalization, and processing of unstructured job data, enhancing data consistency and usability.
- Built a Flask-based REST API integrated with MongoDB (leveraging MongoDB Startup Program credits) for data management and lifecycle automation.

Personal Portfolio Website

- Developed a responsive portfolio website using React and JavaScript to showcase projects and technical skills.

Defold Game Project

- Developed a top-down adventure game "Dungeon Escape", using the Defold game engine and Lua.
- Implemented common game features such as a health system, combat, and bosses.

Technical Skills

Programming Languages:
Java, Python, Lua, JavaScript

Frameworks:
React, Flask

Developer Tools:
Git, VS Code, Eclipse, PyCharm

Libraries:
pandas, NumPy, Matplotlib