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Education

University of Sydney Sydney, AU

BENG (HONS) IN MECHATRONICS AND BSC IN COMPUTER SCIENCE

Feb. 2020 - Dec. 2024

Weighted Average Mark: 82.2%
Honours Class I
Dean's List of Excellence in Academic Performance
GS Caird Scholarship

Experience __

Software Developer Sydney, AU

THE UNIVERSITY OF SYDNEY - ARCHIVES AND RECORDS MANAGEMENT DEPARTMENT

Apr. 2022 - Present

- Rewrote critical C# backend applications using object-oriented design patterns and parallel processing to optimize running time by several hours and meet increasing reporting requirements.
- Developed and maintained Power BI dashboards with Power Query and DAX, used by various departments and teams across the university.
- Integrated client feedback to create insightful reports that increased the productivity of university operations.

Student Software Engineer

Svdnev, AU

USYD ROCKETRY TEAM Feb. 2022 - Jun. 2022

- · Contributed to the development of a rocket modeling and simulation system for the Ironbark team, essential for the iterative design of the physical rocket.
- · Created a custom graphing and visualization module using matplotlib, used during simulations.
- · Frequently communicated with other student engineers to ensure module compatibility and project milestone completion.

Student Software Engineer

Sydney, AU

USYD CUAVA Oct. 2021 - Oct. 2022

- · Developed modules for the CubeSat operating system, CubeOS, including the propulsion system and how it communicates with other modules using UART.
- · Self-taught Rust programming for low-level system architectures.

Android App Developer Sydney, AU

COMPANY: BRIGHT OS Jul. 2021 - Oct 2021

- · Assisted new Front End interns in understanding the repositories.
- Communicated frequently with Front End and Back End teams to implement new features and fix bugs.
- Published updates to the Play Store and reviewed feedback to improve user experience.
- · Maintained high work standards in the high-stress environment of a startup, prioritizing urgent tasks for stakeholders.

Projects_

ashwingur.com Code Code

Personal Website • Includes Portfolio and Personal Projects

Jan. 2023 - Present

- Self-taught Next.js and Tailwind CSS to develop a full-stack application showcasing my portfolio and various personal projects.
- Full integration with my API to create CRUD apps and Analytics.
- Implemented automated E2E testing using Playwright.
- Regularly add new features and projects to apply newly learned skills.

api.ashwingur | AshGPT PERSONAL WEBSITE BACKEND

Code Code

May. 2024 - Present

· Manage an Ubuntu server hosted by Digital Ocean with a Docker container setup for applications.

- Use Caddy web server for HTTPS with Gunicorn as the WSGI HTTP server.
- Use Flask to run the server, providing authentication, rate limiting with Redis, API, and WebSocket interfaces.
- Utilize PostgreSQL for storage with TimescaleDB extension for efficiently querying large time-series data.
- · OpenAI LLM used on media review site to summarise my reviews, recommendations and help navigate the user. Flexible AI powered data querying.

Skills_

Languages Python • Java • C# • Typescript • HTML/CSS • SQL • C • MatLab • Rust

Technical Linux • Windows • React • Next.js • TailwindCSS • Flask • Power BI • Power Automate