FELIX CAO

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Education

University of New South Wales — **Feb. 2021 – May. 2025**

Bachelor of Computer Science and Science (Statistics) — *Sydney, NSW*

WAM: 89.846; The Faculty of Engineering Dean's List (2021-2023). The Faculty of Engineering Dean's Award - Top 100 in cohort of 6,700 UNSW Engineering students (top 1.5%) in terms of WAM (2021).

University of Toronto — **Sep. 2024 – Dec. 2024**

Student Exchange — *Toronto, Ontario*

Experience

Associate Software Engineer — **Jan. 2024 – Aug. 2024, Mar. 2025 – Present**

WiseTech Global — *Sydney, NSW*

- Developed enterprise productivity software with the PAVE team using Vue and C#. I contributed to features involving task tracking and work item customisation in both high-level design and backend/frontend development.
- Built software with the Allocations Management team to facilitate the contract between freight forwarders and carriers. This included adapting 20 complex columns for the quoted booking table in WiseTech's GLOW web interface and working with the product team to develop a feature to streamline the allocation of shipping routes to job shipments.
- Helped maintain data integration and warehousing services in the Business Intelligence team for WiseTech clients. This involved resolving defects in addition to implementing product enhancements such as the integration of Change Data Capture for all customers as well as providing Enterprise Data Warehouse support for the WiseTech document engine.

Tutor - Data Structures and Algorithms — **Sep. 2021 – Present**

UNSW School of Computer Science and Engineering — *Sydney, NSW*

- Tutored multiple classes of up to 24 students in the COMP2521 Data Structures & Algorithms course covering topics including recursion, trees, graphs, algorithmic analysis and sorting algorithms.
- Designed lessons to engage students through detailed and visual tutorial plans and learning resources. This was combined with constant constructive feedback to students based on code style, algorithm efficiency and quality of understanding.

Projects

Strava Discord Bot | *JavaScript, MongoDB* — **Dec. 2021 – Feb. 2022**

- Implemented a Discord bot for athletic competition, featuring a multi-page leaderboard ranking users based on weekly running distance or time. Developed a Strava authentication system using ExpressJS for efficient user registration and access to running data, integrating models for entities in MongoDB.
- Built user commands with DiscordJS to display profile summaries and visualise athletes' running progression via line graphs (ChartJS) or ASCII-generated tables.

MagentaM3 (Spotify Playlist Management Tool) | *JavaScript* — **July. 2024 – Present**

- Leading a team of five to develop an app that allows users to sort and group songs based on a suite of in-built and custom properties such as popularity, energy, mood, location, and color, along with supporting playlist version control.
- Developing the project with Spotify API, TypeScript, React, DrizzleORM, Docker, and tRPC for seamless authentication and data management.

Extracurricular

Computer Science and Engineering Society (UNSW CSESoc)

Vice President of Activities — **Nov. 2022 – Nov. 2023**

- Mentored five director teams in event planning and decision-making, helping organize events for the CSE community. Supported them through regular one-on-one sessions, check-ins, bonding activities, and by providing feedback on events.

Socials Director — **Nov. 2021 – Nov. 2022**

- Coordinated 22 CSESoc Weekly BBQs for approx. 240 students a week, providing the UNSW community a regular means to interact with the CSE student body as well as company representatives during sponsored BBQs.
- Organised a university orientation camp for 150 first-year students. Over three months, our team worked to recruit and train 35 camp leaders, handled budgeting and ticketing for the event and planned three days worth of activities.
- Led a team of subcommittee members to organise a CSESoc Halloween Party for more than 100 students, an Outdoor Cinema Night for approx. 70 students and a Welcome BBQ for approximately 300 students.

Technical Skills

Languages: Java, C, Python, C#, HTML/CSS, JavaScript

Technologies/Frameworks: Linux, Git, NodeJS, ExpressJS, MongoDB, ReactJS, VueJS