Kevin Cai

(+61) 487 718 926 | Sydney, AU | kevin.cai1028@gmail.com | kcai8672@uni.sydney.edu.au | github.com/Kevin-Cai-dev

Education

University of Sydney — Sydney, NSW
Bachelor of Advanced Computing (Honours) — *Feb. 2019 – Present*

- WAM: 81.2
- Major(s): Software Development/Computer Science
- Related Coursework: Data Structures and Algorithms, Object Oriented Programming, Agile Programming, Data Science
- INFO1110: Introduction to Programming Class Mentor
- Dalyell Scholar

James Ruse Agricultural High School — Carlingford, NSW
Graduated 2018 | ATAR: 99.45 — *Feb. 2013 – Sept 2018*

Experience

Primary School Tutor — Jan 2019 – Jun 2021
Pre-Uni New College — *Pennant Hills, NSW*

- Actively volunteered to stand in for other tutors to ensure classes could be run smoothly
- Connected and worked alongside other tutors
- Clearly communicated with parents to ensure student progress was monitored correctly
- Managed and taught various skill/year levels

Projects

Discord Voice Channel Monitoring Bot | *GitHub* — Jun 2021 – Present

- Developed a Discord Bot to alert subscribed members of new activity in voice channels
- Utilised Discord API to manage permissions and notifications
- Implemented a command handler to process user commands
- Incorporated environment variables for authentication
- Built using Node.js

Portfolio Website | *GitHub* — Nov 2020 – Dec 2020

- Developed a website to practice the usage of front-end technologies
- Used JavaScript libraries such as ParticlesJS to animate background components
- Built using React, CSS, JavaScript, ParticlesJS

Vending Machine — Aug 2020 – Sept 2020

- Created a vending machine program implemented using Agile software development for a university project
- Incorporated Scrum methods, agile technologies such as Jenkins, and CI/CD practices
- Integrated persistent database management with GUI interfaces
- Built using Java, Jenkins, SQLite, JUnit, GitHub

JXServer — May 2020 – Jun 2020

- Constructed a networking server for a university project to relay information to clients in response to data requests
- Implemented scalable I/O event notification mechanisms to handle multiple client connections
- Optimised performance by integrating multi-threaded functionality alongside multiplexing
- Placed top 5 in the cohort for speed performance
- Built using C

Technical Skills

Proficient: Java, Python, C
Familiar: LaTeX, JavaScript, Node.js, SQL
Basic: R, HTML, CSS
Technologies: Git, VS Code, React, Gradle, JUnit, Jenkins, PostgreSQL, Unix, JavaFX, Jupyter Notebook