

Kevin Cai

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EDUCATION

University of Sydney

Bachelor of Advanced Computing (Honours)

Sydney, NSW

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, Systems Programming
- INFO1110: Introduction to Programming Class Mentor
- Dalzell Scholar

James Ruse Agricultural High School

Graduated 2018 | ATAR: 99.45

Carlingford, NSW

Feb. 2013 – Sept 2018

EXPERIENCE

Primary School Tutor

Pre-Uni New College

Jan 2019 – Jun 2021

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
- Integrated MongoDB database for persistent storage of servers, channels and subscriptions
- Utilised Discord API to manage permissions and notifications
- Implemented a command handler to process user commands
- Built using Node.js, Discord API, MongoDB

Portfolio Website | *GitHub*

Jul 2021 - Present

- Developed a personal website to display my personal projects, utilising multiple front-end technologies
- Integrated dynamic content loading using GraphQL
- Built using React, Gatsby, Javascript, CSS, GraphQL

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: Node.js, Python, C

Familiar: SQL, JavaScript, Java, CSS

Basic: LaTeX, HTML

Technologies: Git, VS Code, React, Gradle, JUnit, Jenkins, PostgreSQL, Unix, MongoDB