

# Kevin Cai

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## EDUCATION

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### University of Sydney

*Bachelor of Advanced Computing (Honours)*

Sydney, NSW

*Feb. 2019 – Present*

- WAM: 82.1
- 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

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### 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

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### 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

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**Proficient:** Node.js, Python, C

**Familiar:** SQL, JavaScript, Java, CSS

**Basic:** LaTeX, HTML

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