Matt Eden
Final Year Computer Systems Engineering

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💼 Experience

University of Auckland, *Teaching Assistant* 🔗
Jul 2019 – Present | Auckland, New Zealand
- Designed programming questions in **Python** and **Java** using an online content delivery system for graded assignments
- Taught students the fundamentals of **Object-Oriented Programming** in **C++**
- Improved students' understanding of **Data Structures and Algorithms**
- Conducted student-facing drop-in labs and graded coursework for **1000 students** across three semesters

Teknique Ltd., *Software Engineering Intern* 🔗
Nov 2019 – Feb 2020 | Auckland, New Zealand
- Implemented a dashboard to visualise manufacturer data using **Grafana** that was adapted for production in the **United States and China**
- Modernised a legacy in-house quality assurance test suite from Python2 to **Python3**
- Performed crucial research into data visualisation solutions with **Linux** servers containerised using **Docker**
- Developed hardware and software tests with **Nose** for an in-house SDK

University of Auckland, *Research Assistant* 🔗
Nov 2018 – Mar 2019 | Auckland, New Zealand
- Worked with an embedded video analytics system in **OpenCV** in **C++**
- Developed a script in **Python** to generate metrics for precise and consistent evaluation

🎓 Education

University of Auckland,
Bachelor of Engineering (Hons) in Computer Systems
Mar 2017 – Present | Auckland, New Zealand
Undergraduate degree combining Electrical Engineering and Software Engineering to create a holistic view of computers and their operations.

Final Year GPA: 8.33

🎸 Interests

Gōjū-Ryū Karate (*Green Belt, 5th Kyū*), **Japanese**, **Linux** (*Arch Linux*), **Game Design**

🗄 Projects

Roll for Reaction 🔗
Mar 2020 – Jun 2020
- A turn-based rogue-like **dungeon-crawler RPG** that takes inspiration from *Dungeons and Dragons*
- Implement using **React** and **Redux**, the game supports both desktop and mobile platforms

Anzen 🔗
May 2019 – Jun 2019
- Full-stack peer-to-peer messaging service created with **CherryPy**, using an **SQL** database and **Jinja** templating for the frontend webpages

Energize 🔗
Mar 2019 – May 2019
- A side-scrolling action adventure game in **JavaFX** with randomly generated maps and **LAN multiplayer**
- Voted **#1 Best Game** at the event it was showcased at, winning out against **100 other competitors**

🖤 Leadership

University of Auckland,
Part IV Computer Systems Representative 🔗
Mar 2020 – Present
Liaising between students and lecturers to ensure the best outcome for a cohort of **100 students**.

Japanese Auckland Meetup, *Secretary* 🔗
Jan 2018 – Present
Managing the internal operations of the **largest Japanese language exchange club in Oceania**, with over **2000 members** across its 6 year history.

🌐 Organisations

Engineering New Zealand
Apr 2018 – present

Gōjū-Ryū Karate Club
Mar 2018 – present

🧠 Skills

C/C++	Python	Java	Javascript
SQL	React.js	Git	Docker