Matt **Eden**

FINAL YEAR COMPUTER SYSTEMS ENGINEERING

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Experience

Teknique Ltd.
SOFTWARE ENGINEERING INTERN

Rosedale, Auckland
Nov 2019 - Feb 2020

- Implemented a dashboard to visualise manufacturer data using **Grafana** that was adapted for production
- 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
TEACHING ASSISTANT

Auckland CBD, Auckland
July 2019 - Present

- Designed programming questions in **Python** and **Java** using an online content delivery system for graded assignments
- Conducted weekly in-person lab sessions for students to assist in their learning
- Taught students the fundamentals of **Object Oriented Programming** in **C++**
- Improved students' understanding of data structures and algorithms

New Zealand Qualifications Authority
DIGITAL EXAMINATIONS CO-COORDINATOR

Epsom, Auckland
Nov 2017, Nov 2018, Nov 2019

- Supervised the delivery of a digital platform for NCEA exams to over 1000 students across 3 years
- Personally invigilated over 40 exams from NCEA Level 1 through to NCEA Level 3

Education

University of Auckland
B.ENG (HONS) IN COMPUTER SYSTEMS

Auckland CBD, Auckland
Mar 2017 - Nov 2020

Undergraduate degree combining Electrical Engineering and Software Engineering to create a holistic view of computers and their operations.

ACG Parnell College
CAMBRIDGE INTERNATIONAL EXAMINATIONS

Parnell, Auckland
Jan 2012 - Dec 2016

Top-achieving student in A-Level Mathematics, Physics, Computer Science and AS English.

Projects

Portfolio Website
🔗 MATTEAS.NZ

🔗 *GitHub*
February - April 2020

- A portfolio website to showcase the projects I have worked on and provide some basic information to potential employers
- Designed from scratch using a combination of custom components and Material UI's React component library

Roll for Reaction
🔗 MATTEAS.NZ/ROLL-FOR-REACTION

🔗 *GitHub*
March - May 2020

- A turn-based rogue-like dungeon-crawler RPG that takes inspiration from *Dungeons and Dragons*
- Implemented using React and Redux, the game supports both desktop and mobile platforms

Energize
🔗 MATTEAS.NZ/ENERGIZE

🔗 *GitHub*
March - May 2019

- A side-scrolling action adventure game with randomly generated maps and support for LAN multiplayer
- Voted #1 Best Game at the event it was showcased at, winning out against over 30 other games

Extracurricular Activity

Japanese Auckland Meetup (JAM+)
SECRETARY

Auckland, NZ
Jan 2018 - Present

- Managed the internal operations of the largest Japanese Language Exchange club in Oceania
- Coordinated the design and purchase of merchandise to increase club visibility

Skills

Frameworks	CherryPy, .NET Core, React, Redux
Languages	C, C++, Java, Javascript, MIPS Assembly Language, MySQL, Python, VHDL
Technologies	Docker, Git, Grafana, Linux