

Matt Eden

FINAL YEAR COMPUTER SYSTEMS ENGINEERING

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Experience

Teknique Ltd.

Rosedale, Auckland

SOFTWARE ENGINEERING INTERN

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

Auckland CBD, Auckland

TEACHING ASSISTANT

July 2019 - Present

- Designed programming questions in **Python** 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
- Organised and managed the delivery of learning content and coursework through **Canvas**

New Zealand Qualifications Authority

Epsom, Auckland

DIGITAL EXAMINATIONS CO-COORDINATOR

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

Auckland CBD, Auckland

B.ENG (HONS) IN COMPUTER SYSTEMS

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

Parnell, Auckland

CAMBRIDGE INTERNATIONAL EXAMINATIONS

Jan 2012 - Dec 2016

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

Projects

Portfolio Website

 [GitHub](#)

 MATTEAS.NZ

Feb 2020 - Present

- 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

 [GitHub](#)

 MATTEAS.NZ/ROLL-FOR-REACTION

Mar 2020 - Present

- 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

Bakugan Rerolled

 [GitHub](#)

 MATTEAS.NZ/BAKUGAN-REROLLED

November 2019 - Present

- An arcade card-battler designed to emulate the titular game from 2007 anime *Bakugan: Battle Brawlers*

Extracurricular Activity

Japanese Auckland Meetup (JAM+)

Auckland, NZ

SECRETARY

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