

Joel Hutchinson

Third Year Software Engineering Student

Passionate about the creative potential of software and its uses in areas of problem solving

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🐙 github.com/butterplup

EDUCATION

BE(Hons): Software Engineering BCom: Finance and Management

The University of Auckland

02/2019 - 11/2023

GPA: 7.6/9 (A-/A average)

Notable Courses

- Object Oriented Software Construction (A+)
- Data Structures and Algorithms (A)
- Quality Assurance (A)
- Database Systems (current)
- Operating Systems (current)

WORK EXPERIENCE

Resident Adviser

The University of Auckland

02/2021 - Present

Achievements/Tasks

- providing pastoral care, guidance and academic support for first-year students living in accommodation.
- acting as the first port-of-call and the primary responder to urgent incidents overnight when on duty.
- working in a team of 14 to directly support over 400 students.

Customer Service Representative

Noel Leeming Newmarket

11/2019 - 02/2021

Achievements/Tasks

- employed a customer-centric approach in adapting possible sales to suit the requirements of the customer.
- calmly addressed customer complaints/queries in high-stress situations to provide suitable solutions.
- managed time well to achieve all set tasks in a shift.

LEADERSHIP

University of Auckland Film Society | President

(2019 - Present)

Organisation of events for 80+ individuals, communicating info to a membership base of 285 members. Networking with sponsors, securing a 50% increase in funding compared to 2020.

Web Development & Consulting Club | Secretary

(2020 - Present)

Applying for funding, room bookings, club applications and general administrative work. Involved in the organisation of a 100 person hackathon in collaboration with the Software Students Association.

Auckland University Engineering Society | Social Rep.

(2019 - 2020)

As a part of the exec team organising social events for 500+ members of the second-largest club at UoA. Streamlined organisation time for 400 person event from 8 weeks to 2 weeks due to COVID-19 disruptions.

SKILLS

Java

C/C++

HTML

CSS

JavaScript

git

Linux (Bash)

Python

SQL

MATLAB

PERSONAL PROJECTS

QR Code Image Processor | Python | (2021) [↗](#)

- implemented a QR Code detection software using **python**.
- using edge detection, filtering, segmentation thresholding, and connected component analysis to detect boundary box.

Quinzical | Java | (2020) [↗](#)

- collaborated in a team of two to develop a Jeopardy-based quiz app that teaches users about NZ.
- developed using the **JavaFX** library, **CSS** styling, and **Linux bash** command, following **SOLID** design principles.

Dynamic Still Creator | MATLAB | (2019)

- implemented functions that take consecutive images of a moving subject as input, to output a combined image of the moving subject.
- implemented vectorisation to reduce running time from over **15 minutes** to below **5 seconds**.

AWARDS AND ACHIEVEMENTS

Faculty of Engineering Dean's Honours List (2020)

Recognition from the Faculty of Engineering for demonstrating excellence in academic performance by being either in the top 5% of their year of study or attaining a GPA of over 8.25.

University of Auckland Maori Academic Excellence Scholarship (2019)

For demonstrating academic excellence and community participation/leadership, worth \$20,000.

University of Auckland Engineering Science Competition (2017 - 2018)

Achieved **Highly Commended** two years in a row from the Department of Engineering Science, in a annual nationwide competition held over the course of 8 hours to produce a report solving an open-ended problem.

University of Auckland Inter-Residential Debating Winner (2019)

Collaborated in a team of two against 9 other teams in an impromptu style debating tournament. Won both the in-house preliminary trial, and inter-residential tournament.

INTERESTS

Film

Poetry

Waiata

Civics

Design