

# Liam Roach

## Computer Scientist and System Administrator

I'm a Computer Scientist with hands-on experience in system administration, server maintenance and web development. I have a proven track record for reliably solving challenges on time and with attention to detail. I'm currently employed in Auckland, New Zealand but am willing to travel internationally for the right opportunity.



liam.roach9215@gmail.com

0224105669

Auckland, New Zealand

## RELEVANT EXPERIENCE

### System Administrator and IT Technician

St Cuthbert's College

10/2024 - Present

Managed printers and print requests for the school and handled website adjustments/changes.

#### Key Highlights

- Developed and maintained a range of WordPress sites such as <https://impact.stcuthberts.school.nz/>.
- Implemented shipping and billing for storefronts such as <https://ogafundraising.stcuthberts.school.nz/>.
- Provided technical support and data management.
- Created efficiencies through development and implementation of new ticketing system.

### Developer

Auckland University of Technology

12/2022 - 02/2023

Worked on the simbloTe simulator, a testing platform for IoT systems.

#### Key Highlights

- Developed the IDE.
- Implemented Scene Builder (A JavaFX layout tool) into the IDE to make creating objects in the simulator easier.

## UNIVERSITY PROJECTS

### Web Development Team Project

- Web development team project to develop a website based on stakeholder requirements.
- Created a database of easily searched through resources based on categories and user ratings.
- Created a portal to allow a user to submit requests for other resources to be added with provided information.
- Developed an API and front-end web application using the MongoDB, Express.js, React.js, Node.js (MERN) stack.

### Machine Learning Project

- Trained a machine learning model to detect user emotions in social media posts and messages.
- Implemented and tuned neural networks and compared this to classical methods.
- Managed and analyzed multiple datasets to train the best model.

### Word Game

- Developed a word guessing game which utilized time controls and databasing, similar to Wordle but with time restraints and scoring.
- Implemented using Java and Derby.

## TECHNICAL SKILLS

### Web development

Proficient in JavaScript, HTML, and CSS.

### Programming Languages

Proficient in Java, Python, C, Racket, SQL, and R.

### Collaboration Software

Experienced with version control with Git and experienced with hybrid collaboration environments such as Teams.

### Ticketing Systems

Experienced using Zendesk and TOPdesk,

## SKILLS

Analytical problem solving

Time management and prioritisation

Adaptable and committed to personal growth.

Data management and manipulation

Proactive team player

## EDUCATION

### Bachelor of Science in Computer Science

Auckland University of Technology

02/2020 - 11/2023

#### Courses

- |                                     |  |
|-------------------------------------|--|
| • Software Engineering Team Project | • Statistical methods for Data Science |
| • Statistical Modeling Techniques   | • Human Computer Interaction           |
| • Web Development                   | • Deep Learning                        |

## REFERENCES

### Barry Dowdeswell

"Senior Lecturer and overseer of simbloTe project"

Contact: 0274728369

Further references available upon request