

EDUCATION

Christchurch, New Zealand

University of Canterbury

Jan 2018 - (Dec 2021)

- BE(Hons) in Software Engineering.

GPA: 6

PROJECTS

Forest Growth Prediction System

- Created a neural network to make the process of planning forest growth more efficient.
- Performed extensive research on neural network architectures and implementations.
- Created the network with a ConvLSTM model using the **Tensorflow** and **Keras** libraries.
- Used image pre-processing techniques to improve the quality of the input data.
- Performed regular standups, demos, reports and literature reviews.

Activity Management System

- Worked in a **scrum** team to develop solutions to improve activity planning processes.
- Developed extensive REST API using **Java Spring** and **Hibernate ORM**.
- Extensive focus on regression testing using **JUnit** and **Cucumber**.
- Used story point estimation using the Fibonacci and scrum poker methods.
- Performed regular standups, sprints, retrospectives and task estimation.

Cricket Ball Tracking

- Developed a system to improve ball tracking and prediction in cricket to assist umpires.
- Used the **OpenCV** library to extract the ball and its co-ordinates from each frame an input video.
- Created a 3D model displaying the current and future trajectory of the ball using VPython.

EMPLOYMENT

Software Developer

Treshna

Nov 2020 – Feb 2021

- Redesigned web pages to improve usability and presentation.
- Addressed production bugs and improvements in existing **Python/Javascript** services using an internal ticketing system. Utilized **CI/CD** pipeline to rapidly iterate changes.
- Consolidated and cleaned existing code base to ensure it met internal standards. Converted existing **Javascript** services to **Typescript**.
- Updated the language translations throughout the codebase to the Fluent framework.

Nightfill

The Warehouse

Nov 2018 – Jan 2020

- Responsible for handling customer concerns and complaints, designing store displays and stock management.
- Responsible for training new employees within my department.

Caterer

Flame Tree

Jan 2022 – Sep 2022

- Responsible for the organization and proceedings of private functions.
- Clearly and concisely communicated with many different clients and team members.

LANGUAGES AND TECHNOLOGIES

- Languages: Python, Java, Javascript/Typescript/HTML/CSS, C, SQL, Bash
- Frameworks and Libraries: Spring, Hibernate, Node.js, Vue.js, Express.js, Angular, Tensorflow, Keras
- Tools: Git, Linux, Gradle, Maven, JWT, CI/CD

REFERENCES

Karl Metzler

- Character Reference
- CEO Gore Health
- (03) 209 3030

Jayden Jemison

- Supervisor
- Treshna
- Jayden.jemison@gmail.com