

# Jackson Fontaine

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## Education

### University of Auckland - Graduate

2023-2025

Bachelor of Science ~ Double Major in Computer Science and Mathematics

Auckland, NZ

- Overall GPA: 8.15/9 (A / High Distinction average)
- Top Achiever Scholarship, Auckland University School Leavers
- 2024 Blue's Award Nominee and Winner - Sports
- DEVS, WDCC, AUSS

## Experience

### Rocket Lab - Launch Safety Software Intern

Nov 2025 - Feb 2026

Auckland, NZ

- Utilizing React+Typescript, Python+FastAPI, Tauri, and GitLab
- Designing launch critical internal tools for launch safety operators: a GUI that ingests and aggregates launch mission information and telematic data via various pipelines, and automated the generation of a suite of various filetypes.

### Strive Digital - Frontend Web Developer Intern

Dec 2024 - Feb 2025

Christchurch, NZ

- Utilizing React+Javascript, GraphQL, DatoCMS, and Git
- Working remotely, designing the frontend of an interactive team roster page
- Updated the homepage, created a sponsor ticker, and created components in the CMS

### University of Auckland - Teacher's Assistant

July 2024 - June 2025

Auckland, NZ

- Lab Assistant for Principles of Programming and Software Fundamentals
- Completed and provided feedback on weekly Python assignments for the department
- Provided personalised one-on-one guidance and feedback to students in their lab sessions

## Projects



### [\(view\)](#) Newton | Unity, C#, Blender

April 2021 - Now

- Built a first-person puzzle game in Unity centered on gravity mechanics, implementing custom physics systems and gameplay logic to challenge players' problem-solving skills.
- Created and integrated 3D models, animations, and materials in Blender and Unity



### [\(view\)](#) Naïve Bayes ML Classifier | Python, Jupyter, sklearn

May 2025 - June 2025

- Trained, validated, and tested a model to classify different project focuses. Used various methods such as cross-fold validation, Laplace smoothing and n-grams to achieve 98.1% test accuracy.
- Built a simple frontend using React, and connected it via FastAPI to serve real-time predictions.



### [\(view\)](#) Portfolio Website | React, CSS, JavaScript

Nov 2024 - Dec 2024

- Utilising React framework to create a portfolio to display projects and information
- Utilised CSS animations and transitions to create engaging visual effects and smooth interactions



### [\(view\)](#) Sign Company Database | SQLite, C#, .NET, Swagger

July 2024 - August 2024

- Project created for CS335 course to manage a Signage Company's backend
- Created 8 endpoints with varying functions: Managing comments, events, and sign info

## Skills

Soft Skills: Problem-Solving, Teamwork, Communication, Time Management, Leadership

Technical: Python, Java, Javascript, HTML/CSS, C#, React, SQLite, GraphQL, Git, Gitlab

## Interests

Ice hockey is one of my largest passions. I have played for 15+ years, and am currently representing New Zealand. I competed in Bulgaria twice in 2024, for the NZ U20s and the NZ Mens' respectively. I train roughly 6 times a week, whether that's in the gym or on the ice. Another way I stay active is with running, where I recently trained for and completed a half marathon. Connections with other people are very important to me, so I make a point of hanging out with friends and family often. Oh, and I love dogs!

*I am happy to provide references upon request*