

# ELI MURRAY

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## PROFESSIONAL SUMMARY

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I am a driven Bachelor of Software Engineering student at the University of Waikato, fueled by a lifelong curiosity for writing code that solves problems. I am passionate about full stack development and AI from front-end interfaces to back-end systems. With experience in multiple languages through projects in and out of University. I thrive in collaborative, fast paced environments. Very eager to join an innovative team and to contribute my problem solving skills, adaptability, and enthusiasm to deliver quality solutions and, most of all, learn from a team to grow as a developer and a person.

## TECHNICAL SKILLS

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**Front End** | Javascript, HTML, CSS, React, SPARQL

**Back End** | node.js, Java, Python, C#, SQL, PHP, REST APIs

**Testing/Deployment** | JUnit, Docker, Git, Github actions

**Developer Tools** | NPM, Git, GitHub, Linux, Command Line, VS Code

**Other Relevant Skills** | Data Structures, Algorithms, Machine learning, Excel and solidworks basics

## PROJECTS

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### Really Guess Who? | Academic Project

Feb 2024 - June 2024

*Full-stack web application of the Guess Who board game*

Javascript | Node.js | HTML | CSS | Docker

- Developed an online version of the board game Guess Who, featuring celebrity faces including online multiplayer functionality.
- Designed the front end using **HTML**, **CSS**, and **JavaScript** for responsive, interactive client-side gameplay.
- Built the back end with **Node.js**, incorporating Wikidata for fetching celebrity images via **SPARQL** queries and the Boardgame.io api for managing multiplayer features, including lobbies, moves, and game states.
- Deployed the application using Docker to containerize the server, ensuring a consistent environment across different development setups.
- Worked with a team to manage the project through GitHub, employing branching for version control to ensure smooth collaboration and development.

### BOE Visualizer | Academic Project

May 2025 - August 2025

*Web-based system for automating grade distribution visualizations*

JavaScript | HTML | CSS | PHP | SQL | Docker

- Developed a web-based system to automate grade distribution visualizations for University of Waikato's academic departments.
- Built dynamic front-end interfaces using **HTML**, **CSS**, and **JavaScript** for interactive exploration of grade data across years and categories.
- Implemented back-end functionality with **PHP** and **SQL** using PostgreSQL for robust data management and querying.
- Utilized **Docker** for scalable deployment, ensuring consistency across environments.
- Streamlined departmental reviews by reducing manual effort and enabling data-driven insights.

### Encost Smart Graph Project | Academic Project

Mar 2025 - Apr 2025

*Console-based application for energy data visualization*

Java | GraphStream | Linux

- Designed and implemented a console-based Java application using **GraphStream** to model and visualize energy consumption data for users and devices, supporting scalable data-driven solutions.
- Developed classes for user management, device tracking, and energy data processing, showing complex relationships.
- Integrated graph visualization to display energy usage patterns, laying the groundwork for the implementation of AI-driven analytics.
- Executed the project in a **Linux** environment, compiling and running via command-line tools, demonstrating adaptability and technical proficiency.
- Delivered a robust solution meeting strict design specifications, showcasing problem-solving and innovation for real-world applications.

## EXPERIENCE

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### Back of House Operations | JB Hi-Fi

Oct 2024 - Current

*Back of house logistics and inventory management*

- Working inwards goods, unboxing and checking off EDI and manual reports of stock invoiced including processing and labeling.
- Oversee stock management, including organization, transfers, and inventory control.
- Process online orders, package and ship items efficiently to meet customer expectations.
- Provide customer support for order pickups and inquiries and collaborate with team members to maintain smooth operations.

### Competitive Gymnastics Coach | Franklin Gymsports

2021 - 2023

*Coaching competitive gymnastics classes*

- Coached competitive gymnastics classes five days a week after school, delivering structured training sessions.
- Planned classes and competition routines in collaboration with other coaches to enhance athlete performance.
- Attended competitions and provided constructive feedback to support skill development.
- Fostered a positive team environment, encouraging discipline and teamwork among athletes.

## HOBBIES & CLUBS

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### CS-Cubed

Active member of CS-Cubed a Waikato University student club focused around Computer Science, Maths and Software students. Attend meetings and club events regularly to discuss with peers about projects and provide support. Collaborate on coding challenges and workshops.

### Coding

Dedicated to coding personal projects outside of academic work, such as a portfolio website, a full stack react application including all the resources for a scalable startup and dipping my feet in some machine learning crypto chart predictions. Attending Career and coding bootcamps to better my technical skills and knowledge of the software industry. There are plenty of projects on my github which I did not list.

### Golf

Fairly new to pick up this difficult game, getting out nearly every saturday with a group of friends. Really testing my patience and ability to put ideas into action. I am really loving this unforgiving sport even though it may not love me yet!

### Gym

Avid gym goer, I really care about my health and find the science behind exercise and nutrition very interesting, doing my best to apply what I learn to each workout and meal to build towards a better me.

## EDUCATION

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University of Waikato - Bachelor of Software Engineering

2023 - 2026

## REFEREES

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**Larnce Dallavanzi** - Engineering Placement Advisor - Uni of Waikato - [Larnce.dallavanzi@waikato.ac.nz](mailto:Larnce.dallavanzi@waikato.ac.nz)

**Greg Pinfold** - Operations Manager - JB HI-FI - 027 322 2598