

ARIELA MCCLAME

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University of Auckland – BEng (Honours), Computer Systems Engineer

Professional Summary

Second-year Computer Systems Engineering student at the University of Auckland with a strong foundation in programming, problem-solving, and software development. Highly focused, with a passion for design and user experience. Proficient in Java, C, and Python. Experienced in collaborative development, including building an educational mobile app with a client. Eager to apply technical and analytical skills in a software development internship.

Education

The University of Auckland

Bachelor of Engineering (Honours), Computer Systems Engineering

2024 – 2027

GPA: 6.7 / 9.0

Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Computer Engineering

Technical Skills

Languages: Java, C, Python, MATLAB, R, HTML, CSS

Software tools: GitHub, Visual Studio Code, Microchip Studio, PyCharm, Proteus

CAD and Design: Autodesk Inventor, 3D printing, Laser cutting

Concepts: OOP, Graph Algorithms, Embedded Programming, Data Analysis

Hardware and Prototyping: ATmega328P, soldering

Web Development: Responsive Web Design (Flexbox), CSS pseudo-selectors, web accessibility

Projects

Educational Mobile App (Python)

- Collaborated with a real-world client to build an interactive mobile learning app using Python.
- Prioritised usability and maintainability, with clear documentation and Git version control.

Retro Symbol-based game (C)

- Designed a terminal-based puzzle game using 2D arrays, user input handling, and ASCII symbols for UI.
- Demonstrated game state management, undo functionality, and modular design using conditionals.

Responsive Portfolio Website (HTML5, CSS3)

- Built a responsive portfolio website using HTML and CSS, applying Flexbox, semantic HTML, and mobile-first design.
- Emphasised accessibility, clean layout, and typography as part of FCC's Responsive Web Design certification.

Awards and Certifications

- **freeCodeCamp Responsive Web Design Certification** (2025) – Built responsive HTML/CSS projects with a focus on accessibility and UI/UX principles.
- **Techtorium Intro to Computer Programming** (2022) – Created a Windows Forms application in C# with built-in data validation and debugging functionality.
- **Fourth Year Scholars Award**, Kingsway School (2023)

Employment

Pizza Club Max *Silverdale - Kitchen Hand*

Mar 2023 – Jan 2024; Jan 2025 – Present

- Worked efficiently in a fast-paced kitchen, ensuring high-quality, timely orders.
- Demonstrated teamwork and time management under pressure.

Specialised Cleans Ltd - *Cleaner*

Dec 2021 – Apr 2023

- Completed independent commercial cleaning to a high standard, following strict hygiene protocols.
- Built strong attention to detail and reliability through solo, unsupervised work.

Interests

- **Coding** – Enthusiastically complete university coding projects; currently completing the Python Essentials 1 course (OpenEDG).
- **Robotics** – Member of AURA (University Robotics Club), follow robotics and tech developments.
- **Community** – active participant in WEN (Women in Engineering) events
- **Languages** – English, Albanian (Basic), Korean (Basic)
- **Reading, Writing & Craft** – Enjoy classic literature, creative writing, sewing and crochet as creative outlets.