

# ARIELA MCCLAME

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University of Auckland – BEng (Hons), 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

### *University of Auckland*

Bachelor of Engineering (Hons), Computer Systems Engineering

**2024 – 2027**

GPA: 6.8 / 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:** Microchip Studio, Visual Studio, PyCharm, Proteus

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

**Concepts:** OOP, Graph Algorithms, Embedded Programming, Web development, 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.
- Prioritized 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.
- Emphasized accessibility, clean layout, and typography as part of FCC's Responsive Web Design certification.

## Awards and Certifications

- **FCC Responsive Web Design** (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 data validation and debugging practices.
- **Fourth Year Scholars Award**, Kingsway School (2023)

## Employment

### Pizza Club Max Silverdale - Kitchenhand

*Mar 2023 – Jan 2024; Jan 2025 – Present*

- Demonstrated strong teamwork and time management skills in fast-paced environments.
- Ensured quality and speed in preparing orders during peak hours.

### Specialized Cleans Ltd - Cleaner

*Dec 2021 – Apr 2023*

- Developed time management and attention to detail through independent work.
- Followed strict hygiene protocols across commercial sites.

## Interests

- Coding – Thoroughly enjoy all university coding projects and am focused on completing the FCC JS Algorithms and Data Structures course
- Robotics – Member of AURA (University Robotics Club), stay updated with the latest tech news
- Active participant in WEN (Women in Engineering) events
- Reading – Enjoy reading classic literature, especially novels that explore human nature, society, and morality.
- Creative writing – Occasionally write short pieces for personal enjoyment and expression