

# Aaron Worsnop

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## EDUCATION

**The University of Auckland •**

Feb 2022 – Nov 2025

**Bachelor of Engineering (Honours) in Software Engineering**

**Major GPA: 3.56 (89%) | Currently 2<sup>nd</sup> Year**

- **Clubs** General executive and marketing team in **Google Developer Student Club UoA (GDSC)**
- **Courses (Past & current):** OOP, Data Structures & Algorithms, Software Engineering Theory (Graph Theory, Combinatorics), Assembly Language, Software Quality, C fundamentals, MATLAB

## PROFESSIONAL EXPERIENCE

**Retirement Planning Ltd • Web Developer**

June 2022 - Present

**Fintech, Retirement Planning and Financial Advisory Startup**

- Designed and created 10+ responsive pages for a professional and public-facing website.
- Enabled business opportunities with major New Zealand financial institutions by implementing data encryption with OpenSSL (~20,000 new clients and business partnership possible).
- Reworked back-end access management, PID system, authentication and security.
- Increased back-end efficiency of Zoho CRM by restructuring database of sensitive information.
  - Displayed **adaptability** by rapidly mastering advanced Excel to streamline 2,000 complex entries.

**Finergy Ltd • Digital Designer**

July 2022 - Present

**Fintech, Financial Services and Marketing Firm**

- Delivered over 30 successful campaigns for various clients by **collaborating closely with a diverse team**.
  - Demonstrated **versatility in skill** through widely varying nature of projects. (Billboards, flyers, digital etc.).
- Designed 300+ essential brand components, focusing on client satisfaction and quality.
- Revamped the brand identity of multiple companies, increasing efficiency and engagement.

## PROJECTS

**Tic Tac Toe** AI Tic Tac Toe game in **Java** using the MiniMax algorithm with alpha-beta pruning.

**Graph Properties** Program for graph traversal and analysing properties (transitivity, reflexivity etc.) in **Java**.

**Plagiarism checker** Code plagiarism detection tool for students, using winnowing algorithm in **MATLAB**.

**Webforms** Webstore prototype for a client written in pure **JavaScript, HTML, CSS and PHP**.

- Enabled client to prototype their products (financial calculators).
- Created a PHP email function for client contact.

**Strafe** Abstract 3D level-based runner game with level selector made in **Unity with C#**.

**YouTube Channel** 110k+ views | 660+ Subscribers. High-quality tech videos, interacting with fans etc.

## SKILLS

- **Languages:** Java, C#, C, MATLAB, HTML, CSS, PHP, JavaScript, Python
- **Native Proficiency in Mandarin Chinese**