

# Arvin Hay

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## EDUCATION

### Monash University

Feb. 2023 – Feb. 2025

*Bachelor of Science in Computational Science and Mathematics*

*Melbourne, VIC*

- WAM: 78 — GPA: 3.3 — Completed degree in 2 years (accelerated program)
- Awards: Achieving Potential for Distinction Scholarship (2023)

## RELEVANT COURSEWORK

- Data Structures
- Algorithms Analysis
- Machine Learning
- Systems Programming
- Software Methodology
- Database Management
- Software Development
- Computer Architecture

## EXPERIENCE

### DevOps Engineer

Feb. 2024 – Feb. 2025

*Monash eSolution*

*Melbourne, VIC*

- Optimised the Monash eExam platform (Moodle-based) by analysing AWS S3 storage architecture and proposing performance and cost-efficiency improvements.
- Conducted detailed cloud storage audits and implemented lifecycle policies, including migrating legacy and infrequently accessed data to AWS Deep Archive.
- Collaborated with security and compliance teams to ensure changes met university data-governance, retention, and access requirements.
- Implement changes with AWS CLI and create a cost-saving of approximately 19 thousand per year.

## PROJECTS

### PropRoo | *Python, PostgreSQL, React Typescript, TailwindCSS*

Dec. 2024 – Present

- Website: Designed and developed the PropRoo real-estate investment and CRM platform, implementing end-to-end web architecture including responsive UI, backend APIs, database models, and property listing workflows.
- Built features such as property search, referral system, and portfolio-consultation modules.
- Led all aspects of product development, including feature planning, performance optimisation, SEO improvements, deployment pipelines, and integration with third-party services.

### Troche | *Fusion 360, AutoCAD, Vue, TailwindCSS, React Typescript*

Nov. 2023 – Oct. 2024

- Website: Developed a professional website using Vue and TailwindCSS to promote Troche's innovative diabetes management solutions.
- Partnered with Acclaim Care Service to conduct a small-scale survey (43 respondents) and interviewed 8 elderly patients, gaining critical insights into managing diabetes and medication adherence challenges in senior populations.
- Our Solution: Developed a go-to-market strategy and created a prototype for a smart diabetes management system using 3D printing and IoT technologies, aimed at enhancing medication adherence.

### SAMMY | *Figma, ReactJS, TailwindCSS*

Jun. 2024 – Jul. 2024

- Collaborated with WonderLab @ Monash to investigate the perception of robots in public spaces, focusing on restaurant.
- Website: Designed and developed a research showcase website using ReactJS and TailwindCSS.
- Conducted a small-scale survey (24 respondents) and facilitated interviews with university students to gain insights into public perceptions and concerns regarding robots in public environments.
- Our Solution: Developed a campaign strategy advocating for legislation that mandates minimum safety and operational standards for public-service robots. Created supporting materials, including a website, board game, and animated video, to highlight the positive impacts of responsible robot use.

## LEADERSHIP

### Monash Science Student Ambassador

Mar. 2024 – Dec. 2024

*Represent the Faculty at a variety of events*

*Melbourne, VIC*

- Promote Monash University and the Faculty of Science programs and activities to both prospective and current students.
- Engage with students on Open Day, information seminars, and school visits
- Represent the faculty through social media and marketing activities

### Programming Bootcamp Tutor

Feb. 2024 – Jul. 2024

*Monash Information Technology*

*Melbourne, VIC*

- Cooperated with teaching staff to deliver application based programming tutorials to over 240 students.
- Simplified programming concepts to students and guided them to working solutions of programming problems.

## SKILLS

**Programming:** Python, PostgreSQL, Java, JavaScript, TailwindCSS, R, C++, React, Typescript

**Developer Tools:** GitHub, VS Code, IntelliJ, RStudio, Tableau, CuraSlicer, Fusion360, Shopify, Framer, Figma