

# Raphael Schwalb

AUS & ISR Citizen | [raphael.schwalb@gmail.com](mailto:raphael.schwalb@gmail.com) | +61-435-043-211 | LinkedIn: [Raphael Schwalb](#) | GitHub: [RaphS03](#) | Website

## PROFILE

Now in my third year of a Software Engineering and Computer Science double degree at Monash University, I've broadened my knowledge, skills, and portfolio. I aim to further my development by collaborating on real-world problems and enhancing my technical and interpersonal skills. My interests include solution architecture, AI, and machine learning.

## EDUCATION

### Monash University

Melbourne, Australia

B.S. in Engineering (Honours) & B.S. in Computer Science

Expected Graduation, November 2026

- **Concentrations:** Software Engineering & Advanced Computer Science
- **GPA:** 3.625/4.00
- **Related Coursework:** Data Structures & Algorithms, Discrete & Engineering Mathematics, Computer Architecture, Project Processes & Management, Machine Learning & Modeling for Data Analysis, Object-Oriented Programming, Networks & Security, App Development

## PROJECTS AND COURSES

### Stock Predictor

Melbourne, Australia

Jan 2024

- Developed a Neural Network to predict future values of stocks
- Learned Jupyter, Sci-kit, Pandas, and other tools, while following my interests in machine learning

### Backend Blockchain Development

Melbourne, Australia

Nov 2023 - Dec 2023

- Designing and coding Cryptocurrencies, NFTs, and Smart Contracts for a business
- The project was handed to a professional team, but I gained skills in thinking analytically, and cultivating the habit of continuous and independent learning

### Agile Project Management Website

Melbourne, Australia

Team Member

Jul 2023 – Nov 2023

- Developed a full-stack project management website for teams following Agile principles
- As a team, we followed the scrum methodology, where I learned the processes of software team projects

### AI Course with PyImageSearch

Melbourne, Australia

Nov 2022 - Feb 2023

- Completed 5 short courses in a variety of areas within AI with certification
- Topics included Neural Networks and Parameterized Learning, Optimization Methods and Regularization, Convolutional Neural Networks

### Student Engineering Programs at Monash University & RMIT

Melbourne, Australia

Jan 2018

- Completed 2 short multiday programs that introduce students to engineering
- Developed my skills and love for problem-solving at an early age

## ACTIVITIES AND LEADERSHIP

### Maths Tutor

Melbourne, Australia

Mar 2021 – Current

- Helping students from ages 12-18
- Learned how to explain problems and solutions clearly to children of different abilities

### Waiter, Bartender & Front of House Staff at Showtime

Melbourne, Australia

Aug 2021 – Jun 2022

- Good customer service and how to take initiative
- Developed my work ethic and commitment

### Tennis Player & Captain

Melbourne, Australia

Mar 2015 – Nov 2021

- Captained both club teams and school teams
- Learned to lead a team and help team members

### Tennis Coach

Melbourne, Australia

Feb 2018 – Dec 2020

- Coaching assistant and Lead coach for groups of children
- Learned how to care for groups of people, receive feedback, and make positive changes

## SKILLS

**Programming:** Java, Python, JavaScript & TypeScript, TailwindCSS, Next.js, Node.js, React.js, MATLAB, R, Swift (iOS), Assembly

**Tools:** Visual Studio Code, IntelliJ, CLion, PyCharm, Jupyter Notebooks, Git, Linux, Agile & Scrum, Docker