Raphael Schwalb

Software Engineer & Computer Scientist

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Profile

Now in the third year of my Software Engineering and Computer Science double degree at Monash University, I've significantly broadened and deepened my expertise, enriching both my academic and project portfolio. I aim to make an impact on the world by collaborating on real-life problems while enhancing my technical and interpersonal skills. My interests include Solution Architecture, AI, and Machine Learning.

Education

Monash University
2020-2026

- **Course:** Bachelor of Engineering (Honours) & Bachelor of 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, Databases.

Project & Courses

Personal Website
Mar '24

- Created a personal website to showcase my interests, skills, and experience.
- Improved my skills in JavaScript, HTML, and CSS, while learning industry development standards.

Stock Predictor
Jan '24

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

Backend Blockchain Development
Nov – Dec '23

- 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 Software
Jul – Nov '23

- I created a multi-user project management website, leveraging full-stack development techniques and adhering to Agile principles.
- As a team, we followed the Scrum methodology, where I learned the industry processes for team projects

AI Course with Pylmage Search
Nov '22 – Feb '23

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

Student Egineering Programs
Jan '18

- Completed two multiday programs that introduce high school students to engineering at RMIT and Monash University.
- I developed and explored my skills and love for problem-solving at an early age.

Work Experience

Maths & Physics Tutor
Mar '21 – Current

- Passionately helping students from ages 12-18.
- Learned how to explain complex problems and solutions clearly to students of different abilities.

Staff at Showtime
Aug '21 – Jun '22

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

Tennis Captain
Mar '15 – Nov '21

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

Tennis Coach
Feb '18 – Dec '20

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

Access Volunteering
Jan – Jul '19

- Volunteered at a soup kitchen.
- Built a passion for making an impact on peoples' lives.

Skills

Programming
Java, Python, JavaScript & TypeScipt, CSS, HTML, Node.js, React.js, MATLAB, R, Swift (iOS), Assembly, Solidarity

Tools
Visual Studio Code, IntelliJ, CLion, PyCharm, Jupyter Notebooks, Git, Linux, Agile & Scrum, Docker, MongoDB, Jira, APIs

Personal & Professional
Leadership, Communication, Empathy, Problem Solving, Organisation, Collaboration, Initiative, Independance, Adaptability

Hobbies

Hiking & Camping   Skiing   Gym   Saxaphone   Reading

References

Dean Levinson
Software Engineer at ViVi

Connection: Software engineer mentor & collaborator.
Phone number: +61 466 987 045
Email address: dean@vivi.com

Chris Ride
Founder of Auskelp

Connection: Developed blockchain solution for him and tennis partner.
Phone number: +61 437 555 555
Email address: cr@ccride.net

Jenni Roper
Tutoring Client

Connection: A mother of students who I have tutored.
Phone number: +61 414 814 035