

Joshua Cruzado

joshua.cruzado@proton.me | joshcru.github.io | linkedin.com/in/joshua-cruzado

Education

UNSW – Bachelor of Mechatronic Engineering (Honours), **Distinction** WAM: 76.28 Feb 2026
UNSW – Bachelor of Computer Science, **Distinction** WAM: 76.28 Feb 2026
Honours Thesis: Fine-tuning GPT models for automated feedback on engineering drawings

Skills

Computer Science

- **Programming Languages:** C/C++, Python, Java, Rust, Assembly, SQL, PHP, JavaScript
- **Web Development:** React, Vanilla JS, WordPress, Front-End Programming
- **Software Engineering:** Data Structures & Algorithms, Object-Oriented Design, Operating Systems
- **Systems:** Computer Networks, Database Systems, Digital Circuit Design
- **AI/ML:** Fine-tuning GPT models, Computer Vision, Google Gemini integration

Mechatronic Engineering

- **Robotics:** Advanced Autonomous Systems, Robot Design, Path Planning
- **Control Systems:** Linear Systems, State-Space Modelling, Mechatronic Systems
- **Engineering Design:** Strategic Design Innovation, Manufacturing, Mechanics of Solids
- **Simulation & Analysis:** Matlab, Systems Tool Kit, Numerical Methods & Statistics
- **CAD:** SolidWorks, AutoCAD, Fusion 360

Experience

Trainee Web Developer, Amity IT – Penrith, NSW Apr 2025 – Present

- Developed WordPress plugins including ad click fraud detection system
- Built SEO reports and licensing servers using PHP
- Created AI content generator plugin using Google Gemini for client posts
- Maintained CMS websites for business clients

Chess Instructor, Trainstein Chess College – Chatswood, NSW Feb 2022 – Present

- Developed structured lesson plans for students across all skill levels
- Delivered personalised instruction using digital tools and chess software
- Tracked student progress and adapted teaching methods accordingly

Retail Team Member, JB Hi-Fi – Penrith, NSW Nov 2022 – June 2025

- Managed inventory systems and product stocking operations
- Solved customer problems and provided technical product support
- Worked across sales, merchandising, and operations teams

School Tutor, Tutor Doctor – Penrith, NSW Jan 2021 – Feb 2025

- Taught Mathematics, English, and Science across Year 3 to Year 12
- Adapted teaching methods for students with learning differences including dyslexia and ADHD
- Enhanced student confidence and motivation in academic performance

Extracurricular

Youth Leader – Grace West Anglican Church Apr 2021 - Present

- Managed group finances, resource allocation and social media
- Delivered preaching and led bible studies

President – UNSW Chess Club Nov 2021 - Nov 2022

- Designed new club branding and coordinated inter-university competitions
- Organised regular club events and strategic planning initiatives

Marketing Subcommittee – UNSW Vinnies Society Feb 2021 - Nov 2021

- Contributed to university-affiliated community service initiatives
- Supported marketing and outreach activities