

Zaran Zahid

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EDUCATION

Australian National University (ANU)

Bachelor of Philosophy (PbB) with First Class Honours in Computer Science

Dec. 2023

Canberra, ACT

- **GPA: 6.8/7.0**
- Selected coursework: Advanced Algorithms, Advanced Topics in Artificial Intelligence, Computer Vision.
- Honours project: Leveraging spatial computing and computer vision to enhance privacy in augmented reality.

Narrabundah College

ACT Senior Secondary Certificate

Dec. 2018

Canberra, ACT

- **ATAR: 99.80**

WORK EXPERIENCE

Australian Cyber Security Centre (ACSC)

Software Engineer

Mar. 2022 – Present

Canberra, ACT

- Built automated, scalable tools for the Cyber Hygiene Improvement Programs (CHIPs) team, enhancing quarterly scans of millions of IPs to detect security hygiene gaps such as critical vulnerabilities, exposed admin consoles, missing MFA, and weak email anti-spoofing controls.
- Led the end-to-end pipeline for quarterly cyber hygiene reports, generating tailored outputs for 4,000+ government and critical infrastructure organisations; parallelised workflows and added new visualisations, reducing processing time by 90%.
- Presented CHIPs capabilities at stakeholder briefings with 250+ attendees, educating customers on interpreting their reports and incorporating feedback to refine internal tooling. Represented ACSC at international workshops.

Data61 (CSIRO)

Researcher – Immersive Environments Lab

Nov. 2021 – Dec. 2024

Canberra, ACT

- Conducted applied research in the Immersive Environments Lab, integrating Mixed Reality (MR) and Computer Vision (CV) to enhance spatial user interfaces.
- Developed a Unity (C#) MR app that detected and labelled 3D objects using real-time CV inference via a Flask server running models such as YOLO, SAM, and DINO.
- **First author publication:** *Mitigating inherent latency in off-device computer vision for spatial interfaces* – Awarded the Best Student Poster Award at the ACM Spatial User Interaction (SUI) conference.

Australian National University (ANU)

Academic Tutor

Jul. 2023 – Jun. 2024

Canberra, ACT

- Tutored Algorithms and Advanced Algorithms with a focus on algorithm design, problem solving, and C++ implementation.
- Led tutorials, managed online forums, authored tutorial/exam content, and graded assessments to reinforce student understanding.
- Received consistently strong anonymous feedback from students over the course of both semesters.

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:** GIAC Certified Incident Handler (GCIH); Penetration Testing with Kali Linux (OffSec)
- **Selected languages:** Python; C++; PostgreSQL; Java; Typescript; C#
- **Tools and platforms:** PyTorch; Pandas; SQLAlchemy; Git; Docker; AWS; Grafana; RabbitMQ; Linux
- **Skills:** Technical writing; tutorial design; academic research; stakeholder engagement
- **Interests:** Learning languages; tennis; travelling