

# Manav Dodia

CS Student at UNSW, Australian Citizen

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## Experience

### Mira – Contract Development

July 2024 – Current

- Helped develop the Trimmer MVP, a Google-Calendar integrated tool to automate task scheduling
- Utilised NextJS, PostgreSQL, and TailwindCSS to create a functional application with the team.

### GreenCollar – Software Engineer Internship

March – June 2023

- Designed and developed an automation tool using Python and Sentinel-2 satellite imagery data from APIs to facilitate further analysis.
- Improved data acquisition times for each user by up to 20mins/day, boosting efficiency by up to 40%.

### TinkerTank – tutor

Jan – May 2023

- Taught High School students programming fundamentals, and various other extracurricular STEM courses.

## Projects

### antiDDoS – fortified web server

- Developed a python web server coded at the socket-level, implementing the HTTP protocol.
- Then, engineered various advanced DoS/DDoS attacks to successfully exploit the web server.
- Implemented web server fortification mechanisms to defend against such attacks – thus increasing security.

### FairShare – Expense Management Application (Award Winning)

- Developed a full-stack application that helps users manage social finances more easily through automation.
- implemented a publisher-subscriber model with a real-time database and an OCR model for text recognition.

### Structs.sh – educational DSA website

- Developed an internal education page builder toolset using React, TypeScript and MDX.
- Provided an intuitive interface for the education team to write pages with quiz questions, code blocks, and connections to other components of the site to visualise data structures and algorithms.

## Volunteering

**SecSoc (conferences team):** Organised the SCONES security conferences, attended by 200+ Security Professionals.

**CSEsoc (competitions team):** Organised various coding competitions, incl. a maze-solving algorithm robot contest.

**Mathematics Society (careers team):** Organised sponsor company events engaging 100s of students.

**CSEsoc Mentor:** guiding undergraduate CS students academically and teaching/clarifying CS concepts.

**Competitions:** Australian Cyber Security CTF, IMC hackathon, CSEsoc hackathon, Beem AI Hackathon

## Skills

**Languages:** Java (Basic), Python (Advanced), C++ (Intermediate), AWS (Intermediate), C (Advanced), Javascript (Advanced)

**Security:** Networking, digital forensics, web application security, AWS (core), Security Report writing.

**Technology:** Git, Linux utils, Bash, APIs, SQL, React, Next.js, WireShark, Burp Suite, Autopsy.

## Education

### University of New South Wales (Distinction 75)

Feb 2022 – Dec 2024

Bachelor of Computer Science (Cyber Security Major)

**Highlight courses:** Web Application Security, Cloud Security, Digital Forensics, Systems Security, Computer Networks