

Manav Dodia

CS Student at UNSW, Australian Citizen

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Experience

Trimmer – Contract Development

July – Sept 2024

- 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: C, JavaScript, TypeScript, Python. Learning: Java and C++.

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)

Feb 2022 – Dec 2024

Bachelor of Computer Science (Cyber Security Major)

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