Manav Dodia

Computer Science UNSW, Australian Citizen

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Experience

Mira – Contract Development   July – Dec 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

SimplyServed – multi-user media hosting and management platform
- Developed a full-stack platform that allows users to stream, request (automated), and manage media.
- Self-managed server build using Python Flask, connected to external APIs, and secured by Cloudflare.

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.

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.

Volunteering

St Johns: Regularly provide first aid and trained health support at public events, ensuring safety and rapid response.

University Societies: SecSoc (conferences team), CSEsoc (competitions team), MathSoc (Careers team)

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

Competitions Won: Beem AI Hackathon, DevSoc Project Showcase, SCONES CTF 2024.

Skills

Languages: C, JavaScript, Python. Partial: Java and C++.
Software: React, APIs, Node.js, Next.js, Git, HTTP, Tailwind CSS, Supabase, MongoDB, SQL, bash, Flask,

Education

University of New South Wales (Distinction)   Feb 2022 – Feb 2025
Bachelor of Computer Science (Security Engineering)
Highlight courses: Web Application Security, Computer Networks, Advanced OS, Advanced Algorithms.