

Manav Dodia

04 5234 2944

manavbdodia@gmail.com

LinkedIn: [link](#)

website: manavdodia.com

github: github.com/manav1411

Experience

GreenCollar – Software Engineer Internship

Sydney, Australia | March – April 2023

- Designed and developed an automation tool processing Sentinel-2 satellite imagery to facilitate further analysis Using Python and sentinel hub RESTful API.
- Improved efficiency of acquiring imagery data by 40%.

TinkerTank – tutor

Sydney, Australia | January 2023 – current

- Introducing High School students to programming, and various other STEM skills.

Projects

Structs.sh – educational DSA site

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

The Three Amigos – blog site

- Developed a custom map with unique markers and links using Google Maps API and React.
- Created an animated, interactive 3D globe using three.js.

instaFocused – Instagram messenger sender

- Developed a site with a UI to send/receive Instagram messages ONLY, to minimise social media distractions (reels, stories, etc.) using React, Express.js, and Instagram Graph API.
- Created the website by utilising various Facebook APIs and HTTP methods to send/receive messages.

Volunteering

CSEsoc (competitions team): Organised various coding competitions, including a maze-solving root contest.

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

Redback Racing: Designed a CNN to differentiate coloured cones given point cloud data from a lidar sensor. Software architecture/design experience. Minimal coding was involved.

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

Competitions: Jane Street Figgie/Estimation, Atlassian datathon, Optiver Piece the Puzzle, IMC hackathon.

Skills

C, JavaScript, TypeScript, React, Node.js, Next.js, Git, HTTP, HTML, CSS, some C++, some Python, assembly, MIPS, data structures, algorithms, Operating Systems.

Education

University of New South Wales

Feb 2022 – Nov 2024

Bachelor of Computer Science (incl. Extended Operating Systems, Extended Algorithms)

Australian National University

Feb 2020 – Nov 2021

Advanced Mathematics course (incl. cryptography, chaos theory, fractals, topology, countability)