

# Manav Dodia

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## Experience

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### GreenCollar – Software Engineer Internship

Sydney, Australia | March – April 2023

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

### TinkerTank – tutor

Sydney, Australia | January 2023 – current

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

## Projects

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### Structs.sh – educational DSA site

- 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.

### 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

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**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.

**Redback Racing:** Designed a CNN to differentiate coloured cones given point cloud data from a lidar sensor.

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

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

## Skills

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**Languages:** C, JavaScript, TypeScript, some C++, some Python.

**JavaScript related:** React, Node.js, Next.js, Git, HTTP, HTML, CSS.

**Low Level:** MIPS assembly, data structures, algorithms, Operating Systems, interested in performance/security.

## Education

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**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)