

# Nathan Nguyen

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## EDUCATION

### University of New South Wales

Bachelor of Computer Science

Sydney, NSW

Feb. 2021 – Aug. 2025

### McGill University (Student Exchange)

Bachelor of Computer Science

Montreal, QC

Aug. 2023 – Dec. 2023

## EXPERIENCE

### SafetyCulture

Software Engineer Intern

Sydney, NSW

Dec. 2024 – Feb. 2024

- Developed an Excel preview feature for SafetyCulture's Documents platform using AWS S3, Docker, BuildKite and GoLang, allowing users to preview .xls and .xlsx files with full-sheet export functionality.
- Led a team in the intern hackathon to build a mobile companion app for the SafetyCulture platform, using Radar's public SDK to integrate geofencing technologies and automate workflows.
- Led partnership discussions between SafetyCulture and Sunswift Racing, creating proof-of-concept solutions, slide decks, and engaging stakeholders to explore operational efficiency improvements.

## EXTRA-CURRICULARS

### Sunswift Racing

Telemetry Systems Engineer

Apr. 2024 – Present

- Managed telemetry data using AWS, tracking vehicle metrics through Grafana dashboards to optimise performance on race days.
- Liaised with department leads and AWS representatives to develop a roadmap for future telemetry systems, including IaC, CI/CD pipelines, and improved data reporting frameworks.
- Built internal tools and proof-of-concept projects, such as a vehicle parts visualisation platform and a customer-facing mobile app, integrating cloud architecture with embedded systems for remote vehicle control.

### UNSW Illuminate

Project & Software Lead

Jan. 2024 – Present

- As Project Lead, collaborated with external stakeholders and interdisciplinary teams across software, mechanical, electrical and design to deliver interactive exhibits that integrate art and technology.
- As Software Lead, led a team of six to develop embedded systems for art installations, enhance online presence through website development, and build tools to foster online community engagement.

Software Project Member

Jan. 2022 – Dec. 2022

- Worked with a team of 5 to redesign Illuminate's website using React, Gatsby and JavaScript, to better reflect the club's unique identity through interactivity and dynamic elements, resulting in a 42% increase in traffic.
- Developed website prototypes using Figma whilst incorporating feedback to refine and improve UX/UI elements.

### UNSW eReuse

Senior Volunteer

Sep. 2024 – Present

- Refurbished old computers in weekly workshops, diagnosing software issues, replacing hardware, and donating devices to students in need within the UNSW community.

## COMPETITIONS & PROJECTS

### YouTube Audio Visualiser | [Github.com/Nathan-CSE/audio-visualiser](https://github.com/Nathan-CSE/audio-visualiser)

Apr. 2024

- Created a full stack application that transforms audio data from YouTube videos into dynamic visual representations using Web Audio and Canvas JavaScript APIs.
- Developed the frontend using React and HTML/CSS to allow users to customise the appearance of the visualiser and queue YouTube videos.
- Implemented a real-time Firestore database system that manages unique session information.

### UNSW Women in Technology × NAB Case Competition | 1st Place

Jul. 2023

- Led a 4-person team in developing a technological solution to empower NAB's customers to become more environmentally sustainable, aligning with the company's climate/technology strategies and core values.
- Liaised with NAB representatives to gain feedback on our solution, leveraging existing company partnerships and gamification elements to reward sustainable behaviour.