

Jonathan chang

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WORK EXPERIENCE

Optik Consultancy

Nov. 2025 – Feb. 2026

Team lead

Botany, NSW

- Led a cross-disciplinary team to develop a hospital technology prototype for Woolcock Institute, integrating Arduino sensors with a React/Electron desktop app.
- Collaborated directly with the client to gather feedback and refine the design for real hospital use.
- Architected electronics subsystem and guided interface/software development.
- Enabled real-time medical device data visualisation through robust hardware-software integration.

The Movement Church

Nov. 2024 – Present

Connect group leader & Technical volunteer,

Sydney, NSW

- Developed backend features for a newcomer onboarding app using Node.js, TypeScript and REST APIs.
- Led a connect group of 25 members and onboarded 50+ newcomers, demonstrating leadership and community engagement.
- Collaborated with volunteers to gather requirements, test features, and improve workflows.

Coles

Mar. 2021 – Present

Grocery Department 2IC & Duty Manager

Engadine, NSW

- Led team operations in a fast-paced retail environment, coordinating staff and daily store workflows.
- Managed department performance and supported store-wide decision-making as acting Duty Manager.
- Contributed to the grocery department becoming the top-performing department in the region.

PROJECTS

F1 Race Replay Dashboard | Python, Dash | In progress

- Built an interactive dashboard visualising Formula 1 races using real GPS telemetry.
- Animated car movements with cubic spline interpolation.
- Integrated OpenF1 and FastF1 data; implemented playback controls and race indicators.
- GitHub: github.com/Sminkid/f1-race-predictor

CLARA: Conversational Learning Agent for Requirements Analysis | UTS Honours Thesis | In Progress

- Self-led research project developing an AI-powered tool for requirements elicitation in engineering teams.
- Prototyping multi-turn dialogue workflows.
- Evaluating effectiveness and user trust through stakeholder studies.

EDUCATION

University of Technology Sydney

Dec, 2026

Bachelor of Engineering (Honours)

Sydney, NSW

- **WAM:** 70.59
- **Relevant Coursework:** Data structures & Algorithms, Software Architecture, Embedded systems, Interaction design, Web Development, Database Programming, Real-time operating systems

SKILLS & INTERESTS

- **Technologies:** [Node.js](#), SQL, Java, C, C++, Python, Rest API, HTML, CSS, Typescript, Javascript, NoSQL, React, Electron
- **Skills:** Strategic Planning, Web Development, Software Architecture, Leadership, Conflict Resolution, Adaptability
- **Interests:** Weightlifting, Motorsports, Volleyball, Video Games, Music instruments