# Roger Truong

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Portfolio Website: https://rogers-portfolio.vercel.app/

## EDUCATION

**University of New South Wales**                                                       **Sydney, New South Wales**
*B.S. in Computer Science*                                                       *Expected Graduation, August 2026*
- **Grade:** Distinction
- **Related Coursework:** COMP2521 Data Structures & Algorithms, COMP1531 Software Engineering Fundamentals, COMP3121 Algorithms and Programming Techniques, COMP2511 Object-Oriented Design & Programming, COMP9321 Data Services Engineering

## EXPERIENCE

**Cheeky Plant Co.**                                                       **Villawood, Sydney, NSW**
*Frontend Developer Intern*                                                       *Mar 2024 – Current*
- Creating social media and rolling out new website content, emailing, marketing, photography and editing.
- Collaborated on refining the main website and custom landing pages by leveraging HTML, CSS, and JavaScript, while utilising Liquid templating to ensure a dynamic and responsive user experience.

## PROJECTS

**Datespot: Location Reviewer Social Media (Java | Spring Boot Security)**
*Lead Developer*                                                       *Jan 2025 – Current*
- Architected a Spring Boot backend with secure REST endpoints, leveraging Spring Security and JWT for user authentication and role-based authorisation, while persisting user and follow data in PostgreSQL via Spring Data JPA.
- Integrated Google Maps API to enrich user profiles with geolocation data, implementing caching for geocoding responses to minimise external calls and storing retrieved coordinates to support location-based features.

**Maths Spreadsheet Concurrency Project (Rust)**
*Lead Developer*                                                       *Apr 2025 – Current*
- Implemented a concurrent spreadsheet engine in Rust using threads and channels, distributing formula evaluation tasks across worker threads and ensuring thread-safe updates with synchronisation primitives (Mutex/Arc).
- Addressed concurrency challenges by enforcing ownership rules to prevent data races, and implemented backpressure on channels to avoid overload and maintain stable throughput under heavy computational loads.

**Housing Price and Type Predictor Machine Learning (Python, Scikit-learn)**
*Lead Developer*                                                       *Mar 2025 – Apr 2025*
- Engineered a data processing pipeline with Pandas and NumPy to cleanse, normalise and encode a large housing dataset, addressing missing values and extracting features for machine learning.
- Built and fine-tuned Scikit-learn models (e.g. Random Forests, gradient boosting) using cross-validation and grid search to optimise hyperparameters and accurately predict house prices and types.

## ACTIVITIES AND LEADERSHIP

**UNSW Teochew Student Association**                                                       **Sydney, New South Wales**
*President*                                                       *Dec 2023 – Current*
- Leader of an organisation of **500+ members**, **organising** on-campus and off-campus **social events**, **managing** a board of executives, spreading awareness of Chinese Dialect nation-wide through **social media** campaigning.
- Over 200 TikTok followers in 2 months.

**UNSW Software Development Society (DevSoc)**                                                       **Sydney, New South Wales**
*Bridges Projects Member*                                                       *Mar 2025 – Current*
- Contributed to developing a centralised platform for account management, customisable profiles, and targeted sponsorship searches with a TypeScript backend and Next.js frontend.
- Worked on integrating tools for event management and future profile features for university society customisation

## SKILLS

**Programming:** Java, Rust, C, Python, JavaScript/TypeScript, HTML/CSS, SQL, POSIX Scripting, C#

**Tools:** Git, React.js, Node.js, Spring Boot, Maven, Gradle