

Lucas Liu

Driven Software Engineer

Monash University

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Qualifications & Education:

Monash University Bachelor of Engineering (Software) (Hon) 2020 - 2023

I am a motivated software engineering student with a diverse array of skills and experiences. I pride myself on my efficient time and effort management abilities and my aptitude for continuous learning.

Languages:

English: Native
Chinese Mandarin: Intermediate

Proven Tech Stacks:

- Front End Web Development
- Full Stack Web Development
- Agile Methodologies
- Amazon EC2
- Bashscript
- C
- Dotnet
- Docker
- Git Version Control
- Machine Learning
- HTML5/CSS3
- JQuery
- JavaScript and TypeScript
- Lisp and Elisp
- Machine Learning
- NoSQL Databases
- Object-oriented Programming
- Parallel Processing
- Python
- React Native
- React.js
- Regex
- Rest API
- Rust
- SQL
- Emacs

Licenses & Certifications:

Full-Stack Engineer Career Path (Codecademy)
[Credential](#)

Penetration Testing, Incident Response and Forensics (IBM)
[Credential](#)

AWS Web Services Certified 2022 - 4 Certifications (Udemy)
[Credential](#)

Build a Machine Learning Model with Python Skill Path

Work Experience:

Commonwealth Bank of Australia

Data Engineer

Feb 2025 - Present (5 mos).

Graduate Software Engineer

Feb 2024 - Present (11 mos)

Eligible for early roll off into a software engineer. Part of the grad committee as a volunteering and community committee member where i held various events such as foodbank event, clean up australia and various mental health related events.

WEX

Software Development Intern

Feb 2022 - Feb 2023 (1 yr)

As a Software Development Intern at eNett International, I'm part of a fintech team that develops innovative payment solutions. My achievements include:

- Developed a retry policy for a high-volume settlement matching service. Managed encryption key updates for HSBC and Citibank.
- Conducted impact analysis for ANZ's MT940 file format changes.
- Set up VANS on developer laptops and created setup guides.
- Assisted in resolving financial discrepancies and compliance issues.
- Fixed bugs related to chargeback reversals.

Monash Young MedTech Innovators (MYMI)

Mobile Application Developer

Jun 2022 - May 2023 (1 yr)

- As a developer on the Aesop project, I played a key role in creating a mobile application that presents personalised images, also known as social stories, to neural-divergent children in a hospital setting.

Software Engineer

Jun 2022 - Present (1 yr 1mos)

- Designing a search engine for clinical guides
- Refining the frontend
- Deploying the web application on Amazon EC2
- Building a parsing engine on the back end to save clinical guide data as JSON in MongoDB
- Allowing the medical calculator to accept equations and code, saving it to the database.

(Codecademy)

[Credential](#)

[Notes](#)

Monash University Full Stack
Development Presentation
Volunteer

[Credential](#)

Strategy Consulting Virtual
Internship (Accenture)

[Credential](#)

Become a User Experience
Designer Learning Path (Linkedin)

[Credential](#)

C#: Advanced Practices (Linkedin)

[Credential](#)

Learn C Course (Codecademy)

[Credential](#)

[Notes](#)

Learn TypeScript Course
(Codecademy)

[Credential](#)

[Notes](#)

Learn SQL Course (Codecademy)

[Credential](#)

Learn the Basics of Regular
Expression Course (Codecademy)

[Credential](#)

Learn the Command Line Course
(Codecademy)

[Credential](#)

Learn the Bash Scripting Course
(Codecademy)

[Credential](#)

Website Hacking / Penetration
Testing Course

[Credential](#)

Other Hobbies:

Cooking

Sports

Gym

Coding

Monash University HumanISE Lab

Summer Research Assistant

Nov 2021 - Jan 2022 (3 months)

- Trained several machine learning models that can scan for human value violations in code b reading comments.
- Deployed Machine learning classifier to a web application using a task queue that can be run asynchronously (in the background).

MW Sheetmetal

Computer Aided Design Technician

Feb 2016 - Jun 2018 (2 years)

Mad Patties

Kitchen Staff

May 2021 - Oct 2022 (1 year 6 months)

⚙️ Engineering Team Competitions

- Software development team using Scrum model - 2021
- Hacksprint x MAC hackathon team leader - 2021
- Flight vehicle design (aerodynamics sector) Airbus A350 competitor - 2020

📁 Open Source Software Project Contributions and Projects

Usability Accessibility Testing Toolkit

[Repo](#)

- Using AI and neural networks to detect for display bugs and usability issues.
- Technologies: Python, docker

AI Widgets

[Repo](#)

- A repository aiming to develop a range of widgets and UI components that are compatible with AI technologies, such as AI chatbots. (Currently in the works)

Human Values Machine Learning Application

[Repo](#)

- An application that scans for comments inside code and using nlp and machine.

Coding Notes

[Repo](#)

- My personal coding notes and snippets, organized by language and topic with code examples.

Apache Airflow

[PR](#)

- Added the ability to search DAGs by name in the system, making the search bar in the interface work again

Image Overlayer

[Repo](#)

😊 Volunteering Experience:

College Advisor

Monash Non-Residential College

Feb 2022 - Feb 2023 (1 year)

- Supported Monash University students by providing social support and organising events and meet-ups for cluster of 30 students.
- Undertook several training modules on mental health, leadership, time management and inclusion to help support others