

# Cadence Loh

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## EDUCATION

### University of California, Berkeley

Aug. 2025 – Present

*B.A. Computer Science*

*Berkeley, CA*

- **GPA:** 4.0/4.0, Dean's List
- **Relevant Coursework:** Data Structures and Algorithms, Principles and Techniques of Data Science, Advanced Algorithms, Databases

### Raffles Institution

Feb. 2023 – Dec. 2024

*H2 Physics, Chemistry, Mathematics, Economics; H3 Game Theory*

*Singapore*

- Infocomm Media Development Authority (IMDA) Singapore Digital Scholar, specializing in AI

## TECHNICAL SKILLS

**Languages:** Python, C++, Java, JavaScript, SQL

**ML/AI:** PyTorch, Hugging Face, Ollama

**Systems/Dev:** Docker, Kubernetes, Git, Conda

**Web:** Node.js, Supabase, Streamlit

**Agentic Tools:** Claude Code, Codex

## EXPERIENCE

### Agentic AI Intern

Jun. 2026 – Aug. 2026

*Sweden Startup Next*

*Stockholm*

- Used Claude Code to accelerate redevelopment of a Node.js/Supabase reporting platform, developing reusable skills to automate repetitive implementation and debugging workflows
- Designed a tool-augmented multi-agent code review workflow using specialized Claude Code agents for frontend, backend, database, and security analysis, enabling parallel review of code changes across the stack
- Developed reusable Claude Code skills to automate repetitive development workflows, reducing manual intervention in routine coding and debugging tasks

### Robotics Research Intern

Apr. 2025 – Jul. 2025

*DSO National Laboratories*

*Singapore*

- Compared two SotA models for pose estimation of self-balancing robot, **FoundationPose** and **MASt3R**
- Compared various methods for automatic object mask generation; chose to integrate **Segment Anything Model** and **GroundingDINO** for mask generation given natural language prompt
- **Reduced model sizes** by over 10% to make them more lightweight, making them executable on CPU

### Cryptography Research Intern

Nov. 2022 – Dec. 2022; Nov. 2023 – Dec. 2023

*DSO National Laboratories*

*Singapore*

- 2022: Developed and implemented a **dynamic programming algorithm** to conduct frequency analysis on partially known data, derived from SQL search queries
- 2023: Implemented **four** SotA volume-hiding searchable encryption schemes, then found and implemented improvements to reduce both storage volume and query volume of the schemes, achieving an average **30%** improvement across all schemes, achieved **Bronze** at Singapore Science and Engineering Fair

## PROJECTS

### Project EmpowerHer | Python

Jan. 2026 – May 2026

- Created chatbot for the **Cal Women's Mentorship Program**, which supports women working in UC Berkeley
- Integrated **Ollama chatbot** with **Streamlit** to create chatbot prototype and **automated web scraping** of mentor data to finetune chatbot

### Robotics Software Lead | C, Python

Dec. 2022 – May 2024

- Led software development for robot soccer systems as part of school's Robotics Club
- **Designed algorithms** for ball tracking, boundary detection, and strategic positioning, improving robot performance **without relying on sophisticated hardware**; Only competitive Soccer team in the world to do so
- Achievements: 1st place in RoboCupJunior Soccer Open in Singapore (2023), 3rd place in matches at RoboCup International at Bordeaux (2023), 3rd place in World Robotics Olympiad in Singapore