

Larry Chen

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EDUCATION

University of Waterloo

Candidate for Bachelor of Computer Science

Waterloo, ON

September 2022 – May 2027

- Cumulative GPA: 3.9 / 4.0
- Relevant Courses: Object-Oriented Software Development, Data Structures, Algorithms, Operating Systems

EXPERIENCE

Software Engineer Intern

September 2025 – Present

MAGI Inc.

New York, NY

- Developed a cross-platform **React Native** app (web/iOS/Android) built with **TypeScript**, **Node.js**, and **Expo** that uses AI to evaluate job candidates, generate assessments, and connect job seekers with employers
- Implemented resume parsing via the **OpenAI API**, storing the structured data in **Google Cloud Storage**
- Extended our **GraphQL API** in **Python** to store device information in **Firebase** for **720+** users
- Enhanced the app by adding toasts, deep links, **PostHog** replays, and automated emails through **SendGrid**

Software Engineer Intern

January 2025 – April 2025

Huawei Technologies

Toronto, ON

- Contributed to Huawei's Ascend compiler using **C++**, **Clang**, and **Linux**, with focus on improving front-end compilation and fine-tuning **MLIR/LLVM** code optimization
- Developed multiple **MLIR** passes to enhance performance, extend functionality, and facilitate dialect lowering
- Researched compiler optimization by reading technical papers, studying IR, and writing technical documentation
- Resolved compiler bugs using the **MLIR API**, enabling **27** previously failing CI test cases to pass

Software Developer Intern

May 2024 – August 2024

Systems With Intelligence

Toronto, ON

- Furthered development of a **React Native** mobile app (available as SWI-IoT on iOS and Android) built with Node.js, Metro, and Xcode that configures and interacts with **9,000+** surveillance cameras in electrical substations
- Developed an interactive map leveraging the **Google Maps API** that plots users' cameras on a visual interface
- Added backend routes to our API using **Express.js** that allow the app to retrieve information from the database
- Spearheaded the app's unit testing framework using Jest and increased test coverage from **0%** to **59%**

Full-Stack Software Developer

September 2023 – December 2023

University of Waterloo - Faculty of Engineering

Waterloo, ON

- Developed a 2FA web application using **React**, **Node.js**, and **Express.js** with web hosting managed by **Firebase** and database management handled with **MongoDB** and **Cloud Firestore**
- Established a webhook using **Postman** and Stripe's API to handle customer payments with a **99.7%** success rate
- Set up a CI/CD pipeline using GitLab and PowerShell to run **170+** unit and integration tests before deployment
- Updated a 2FA Android app using **Kotlin** and Android Studio, resulting in a **100%** reduction in crashes

PROJECTS

🐙 TuringSketch | *Python, Streamlit, AI* | [Demo](#)

January 2025 – January 2025

- Developed an online multiplayer drawing game using **Python**, where players guess which drawing is AI-generated

🐙 EthPay | *React Native, TypeScript, MongoDB, Figma, Expo*

June 2024 – August 2024

- Designed and built a mobile app using **React Native** that uses crypto to simplify conversion between currencies

🐙 Developer Portfolio | *React, JavaScript, GitHub Actions* | chenlarry.com

April 2023 – August 2024

- Developed an authentic **React** application using **Node.js** that presents my resume on a stylish web page

🐙 Hangman | *HTML, CSS, JavaScript, AWS* | playhangman.ca

December 2022 – January 2023

- Built and deployed a hangman web application using **AWS S3** that averages over **1,400** unique visitors per month

TECHNICAL SKILLS

Languages: C/C++, JavaScript, TypeScript, Python, HTML, CSS, R, Bash, Kotlin, Java, SQL, GraphQL

Frameworks: React, React Native, Node.js, Express.js, REST APIs, Jest, Cypress, LLVM, MLIR

Tools: Firebase, AWS, MongoDB, Cloud Storage, Clang, Git, GitHub, GitLab, Linux, SSH, Jira, BitBucket, VS Code, Android Studio, Xcode, Eclipse, NetBeans, PowerShell, Postman, CI/CD, Figma, Expo, Metro, LaTeX