

# DORIS LAM

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## EDUCATION

### University of Waterloo

Sep 2024 – Present

*Bachelor of Applied Science in Computer Engineering*

*Waterloo, Ontario*

- Relevant Coursework: Linear Algebra, Fundamentals of Programming, Digital Circuits & Systems, Linear Circuits
- Awards: Generation Google Scholarship, University of Waterloo President's Scholarship

## SKILLS

**Programming Languages:** Python, Java, C, C++ , C#, Go, JavaScript, TypeScript, Swift, Bash, SQL, HTML, CSS

**Frameworks & Libraries:** React, React Native, Next.js, Node.js, Express.js, FastAPI, Flask, ASP.NET, Blazor, Tailwind CSS, Chart.js, NumPy, Pandas, OpenCV, TensorFlow, MediaPipe, GSAP, MongoDB, MariaDB

**Tools:** Git, Linux, VS Code, Xcode, Jupyter Notebook, Unity Engine, Claude, Cursor, STM32 Nucleo Board, Google Cloud, Jest, Cypress

## EXPERIENCE

### Software Engineer

Sep 2025 – Present

*Voxer*

*San Francisco, California*

- Built a new **React Native Web client** for Voxer's push-to-talk platform, supporting **70M+** users, with reusable cross-platform UI components and modernized architecture for a consistent and scalable user experience across devices
- Developed contact and profile management features, including adding, displaying, deleting, and blocking users while maintaining privacy and security standards, backed by **GCP-hosted databases**
- Increased workflow automation by integrating Voxer with Zapier's **1,000+** app ecosystem, engineering and testing **Webhook-based API endpoints** that connect chats with tools such as Slack, Dropbox, and Gmail instantaneously
- Built automated testing suites with **Jest** and **Cypress**, improving confidence and cutting regression issues by **30%**

### Firmware Developer

Sep 2024 – Present

*University of Waterloo Formula Electric*

*Waterloo, Ontario*

- Developed custom Command-Line Interface (CLI) commands in **C** to seamlessly interface with the Power Distribution Unit (PDU), allowing for the efficient retrieval and modification of inverter parameters for reliability and scalability
- Implemented and tested fault-handling protocols to address high-voltage and electromagnetic state conditions, ensuring operational safety and system reliability by preventing unsafe inverter activation and potential hazards

### Founding Full-Stack Software Engineer

May 2025 – Aug 2025

*HormoneFit*

*Scarborough, Ontario*

- Developed a full-stack, HIPAA-compliant telehealth platform for menopause care using **React**, **Next.js**, **TypeScript**, and **Tailwind**, enabling secure patient onboarding for **1,200+** users and across **15+** healthcare specialists
- Built a scalable video consultation and real-time chat platform using **Agora SDK**, optimizing low-latency streaming with less than **100ms** latency and **99.8%** connection reliability to enable seamless virtual visits for users
- Designed and implemented **RESTful APIs** with **Express.js** and optimized **MongoDB** schemas, enabling secure, real-time access to patient records and improving data retrieval efficiency by **40%** for healthcare providers

## PROJECTS

### Snout | Go, Lingva Translate API

Jul 2025

- Designed and built a French-output interpreter in **Go**, implementing a complete **lexer**, **parser**, **AST evaluator**, and **REPL** to support custom syntax for variables, functions, arrays, hashes, and conditionals
- Integrated French string translation using a hybrid of the **Lingva Translate API** and manual dictionary fallback, localizing program output (strings, errors, booleans, nulls) to enhance user immersion and language accessibility

### CelebLearn | React, TypeScript, FastAPI, OpenAI, Sync Labs Lip Sync API, Python

Mar 2024

- Implemented lip synchronization using **Sync Labs Lip Sync API** and **FastAPI**, powering an educational platform that delivers personalized lessons through simulated celebrity instructors
- Integrated **OpenAI** models to summarize PDFs, generate transcripts, extract key concepts and keywords, and create personalized quizzes, building an advanced AI-powered platform that evaluates and enhances user comprehension

### SignSpeak (uOttHack First Place) | React, Next.js, Node.js, TensorFlow, MediaPipe, HTML, CSS

Feb 2023

- Created a sign recognition system using **TensorFlow** and **MediaPipe** to analyze hand gestures and compare them to predefined signs, offering an interactive, user-friendly platform that enhances accessibility for hearing-impaired learners
- Architected a full-stack **Next.js**, **React**, and **Node.js** web application to develop a sign language learning platform