Doris Lam

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Education

University of Waterloo **Sep 2024 – Present**
Bachelor of Applied Science in Computer Engineering *Waterloo, ON*

Skills

Languages: Python, Java, C++, C#, C, Go, JavaScript, TypeScript, Swift, Bash, SQL, HTML, CSS
Technologies: React, React Native, Next.js, Node.js, Express.js, FastAPI, Flask, ASP.NET, Blazor, Tailwind, Chart.js, NumPy, Pandas, OpenCV, TensorFlow, MediaPipe, GSAP, WatermelonDB, Agora SDK, Firebase Analytics
Tools: Git, Cursor, Xcode, Node, Docker, GCP, Firebase, Branch, MongoDB, Postman, Jest, Cypress, BigQuery

Experience

Software Engineer **Sep 2025 – Present**
Voxer *San Francisco, CA*

- Launched a new web client platform for Voxer in **React Native**, scaling the platform to support **40+ million** users
- Built a real-time audio streaming pipeline using **WebAssembly** and **HTTP/2**, reducing audio latency to under **200ms**
- Developed an offline-first messaging system with **WatermelonDB** schema migrations and cross-device sync, ensuring **100%** local message access and delivering reliable message consistency online or offline
- Containerized production services using multi-stage **Docker** builds and Envoy dynamic proxy routing, enabling zero-downtime deployments, more reliable traffic handling, and a **50%** reduction in infrastructure costs
- Implemented **Firebase Analytics** with structured event tracking, processing **15M+** daily events piped into **GCP** for aggregation and analysis, enabling scalable product insights with **99%** event delivery accuracy
- Created automated testing in **CI/CD** using **Jest and Cypress** end-to-end suites, increasing test coverage to **35%** and reducing production regressions by **25%**

Software Engineer **May 2025 – Aug 2025**
HormoneFit *Toronto, ON*

- Shipped a HIPAA-compliant telehealth platform for menopause and infertility care using **React**, **Next.js**, **TypeScript**, and **Tailwind**, enabling secure patient onboarding for **1,200+** users and **15+** healthcare specialists
- Built a 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 implemented a full programming language interpreter in **Go**, building a custom lexer, parser, AST evaluator, object system, and REPL to support variables, functions, arrays, hash maps, conditionals, and built-in methods
- Integrated full French-localized runtime output, integrating **Lingva Translate API** with a dictionary fallback to convert strings, booleans, null, and interpreter error messages, including parser error handling with ASCII visual feedback

CelebLearn | *React, TypeScript, FastAPI, OpenAI, Sync Labs Lip Sync API, Python* **Mar 2024**

- Implemented lip synchronization using **Sync Labs Lip Sync API** and **FastAPI**, building a low-latency video generation pipeline for an interactive learning platform delivering personalized lessons through simulated celebrity instructors
- Integrated **OpenAI** models into a **multi-stage NLP pipeline** generating summaries, transcripts, semantic keywords, and personalized quiz modules, enabling automated comprehension scoring and structured knowledge extraction

SignSpeak (uOttaHack First Place) | *React, Next.js, Node.js, TensorFlow, MediaPipe, HTML, CSS* **Feb 2023**

- Built a real-time sign recognition model using **TensorFlow** and **MediaPipe** to map hand landmarks and classify gestures against predefined ASL signs for an interactive learning experience that improves accessibility for hearing-impaired users
- Architected a full-stack sign language learning platform using **Next.js**, **React**, and **Node.js**, designing reusable components, API routes, and training modules to support scalable content delivery and responsive user interactions