

David Estrine

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EDUCATION

University of Waterloo

Bachelor of Software Engineering (GPA: 89.64)

- Awarded President’s Scholarship of Distinction (\$5,000) in recognition of academic excellence.
- Founder, President of Motorsport Club and Software Engineering Academic Representative.

Waterloo, ON

Sep 2025 – Present

TECHNICAL SKILLS

Languages: Python, C++, TypeScript, SQL, JavaScript, HTML/CSS.

Frameworks: React, React Native, Flutter, Node.js, Arduino.

Libraries: Scikit-learn, Tensorflow.

Cloud/Tools: Microsoft Azure, Firebase, Git.

Interests + Hobbies: Karate (Canadian National Team ‘22, ‘23), Formula 1, Competitive Programming (CCC Senior Distinction ‘24), Graphic Design (Adobe Photoshop, Illustrator, Premiere).

EXPERIENCE

Software Engineering Intern

May 2026 – Aug 2026

Readwise

Irvine, CA

- Building Bookwise, a **social reading network**, shipping high-velocity **React Native/TypeScript** product features for **100K+ paying users**.
- Developing **Django** backend services and product APIs, supporting reader’s **100M+** saved highlights.
- Building automated bug-fixing workflows for turning user-reported bugs into PR’s to accelerate product iteration.

Machine Learning Researcher

Jun 2025 – Dec 2025

SickKids Hospital

Toronto, ON

- Researching in the Dunkley Lab on computational neuroscience, and bioinformatics as part of the SSuRe program.
- Developing **machine learning regressors** to analyze MEG scans for accurate predictions of concussion severity.
- Applying **graph traversal** to extract biomarkers and train **SVM/PLSR** models in **Python** with **Scikit-learn**.

Co-Founder & Chief Technology Officer

Apr 2025 – May 2026

Lect

Toronto, ON

- Leading a team of **10+** to build a conversational auditory learning assistant, replacing traditional flashcards.
- Developing core application logic in **Python**, integrated with **OpenAI API** for enhanced language functionality.
- Designing a clean intuitive user-interface with **React Native** for cross-platform compatibility.

AI Development Intern

May 2025 – Jul 2025

VCI Institute

Toronto, ON

- Designed **RAG** systems to improve consulting and investment workflows using **LangChain** and **OpenAI APIs**.
- Built chatbot interfaces with **React**, integrating **SQL vector databases** using **Supabase** for data retrieval.

Back-End Development Intern

Sep 2024 – May 2025

Ontario Ironworkers

Toronto, ON

- Developed a **scalable back-end database** for secure storage and management of organizational document images.
- Created SSRS reports and **SQL** stored procedures to automate data retrieval and generate customized analytics.

PROJECTS

Yapdraw *GenAI Genesis 2026 Finalist*

Apr 2026

- Built a real-time voice-to-**Excalidraw** diagramming tool with **Next.js**, **OpenAI API**, and **Deepgram**.
- Cut latency to **sub-1s** and added **IndexedDB** auto-save, version history, rollback, and node recovery.
- [Project Link](#)

KitchenScan *Google Hackathon Winner*

May 2026

- Built a **food-scanning app** with **Gemini Vision** that scans ingredients and generates personalized recipes, winning **\$260**.
- [Project Link](#)

Gauge

Jun 2025

- Built an EEG headset that detected real-time stress levels using **SVM classification** implemented in **Python**.
- Designed a cross-platform app with **Flutter**, connected to Arduino hardware and **Firebase** for synchronized data.
- [Project Link](#)

Quantum Computing Documentary Series

Jan 2025 – Aug 2025

- Directed, filmed, and edited a multi-part series exploring how quantum computers work and how they are built.
- Included interviews with Michelle Pokrass (OpenAI), Louis E. Brus (Nobel Laureate), and Uri Banin (Researcher).
- [Documentary Playlist](#)

NeuralWorks

Jan 2024 – Dec 2024

- Published a **multi-layer neural network** library from scratch in **Node.js**, developed with **JavaScript** and **TypeScript**.
- [GitHub Repo](#)