

Joshua Souphanthong

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EDUCATION

Carleton University

Bachelor of Computer Science (GPA: 3.8/4.0)

- Awards: President's Scholar, Carleton Academic Scholarship

Ottawa, ON

Expected May 2027

EXPERIENCE

Incoming Software Engineer Intern

Vercel

Summer 2026

San Francisco, CA

Software Engineer Intern

Clover Labs

May 2025 – Present

Ottawa, ON

- Built and shipped a **React Native/Expo** plant health app combining image recognition and an AI chatbot for disease diagnosis and treatment, using **Supabase** for backend data management and authentication
- Developed a **React/Next.js** automation tool that pulls Tumblr content via API and generates 250-700 Instagram/TikTok slides per hour, enabling rapid social media growth at scale, and significantly reducing UGC costs
- Created a browser-based **Next.js** tool that auto-invites new hires across **GitHub**, **Vercel**, and **Supabase** via direct API integrations, reducing developer onboarding time and eliminating permission conflicts
- Engineered a **Python** pipeline to scrape and categorize sales meetings with an AI model, storing results in **Supabase** to power an event-referencing sales rep training tool, allowing the sales team to analyze and increase close rate by 15%

Software Engineer Intern

Laroye AI

July 2025 – Sept 2025

Regina, SK

- Architected and implemented a content filtering system using **Python** to fetch **YouTube** transcripts and batch process them through **Gemini API** for inappropriate content detection with **AUROC** scores of 0.92-0.97
- Created an evaluation system using **LLM-as-a-Judge** methodology to optimize model selection for content moderation, reducing manual testing overhead by 99% while maintaining human-level accuracy
- Deployed an **API** endpoint for safe-content filtering of **YouTube** videos using the best-performing model, implementing input validation and rate limiting to sustain 50-150 requests/sec at 250-600 ms latency

Software Engineer Intern

Social Coffee & Tea Co.

May 2025 – Aug 2025

Richmond Hill, ON

- Built a full-stack e-commerce storefront using the **Shopify Hydrogen** framework with **React 18** and **Remix**, enabling over 300 orders on the first week of launch
- Integrated **Shopify Storefront API** and **Customer API** using **GraphQL** fragments for efficient data fetching and real-time inventory management

PROJECTS

Drift | Python, ChromaDB, SQLite

- Built an file organization system that indexes and auto-clusters documents, code, and images using vector embeddings (**BGE-M3**, **CLIP**), enabling meaning-based search and automated folder restructuring across macOS file systems.
- Implemented a clustering engine using HDBSCAN with embedding fusion, recursive cluster refinement, centroid-based merging, and outlier reassignment, producing high-cohesion folder structures and semantic folder names.
- Designed a scalable retrieval pipeline with change detection, chunked text embeddings, and **ChromaDB** vector storage

ClearHealth | JavaScript, React, PineconeDB, Clerk, AWS S3

- Built a full-stack application to ingest medical documents and provide contextual **Q&A** using **React** and **JavaScript**
- Integrated a chatbot using the **OpenAI GPT API** for on-demand answers, summaries, and section-linked insights
- Stored vector embeddings in **PineconeDB** for efficient indexing, reducing **OpenAI** token costs by up to 80%
- Established a secure file upload system using **AWS S3**, ensuring scalable and protected storage for user documents

TECHNICAL SKILLS

Languages: Python, Java, TypeScript/JavaScript, HTML, CSS, SQL

Frameworks/Libraries: React, Node.js, Express, Jest, pytest, Shopify Hydrogen

Tools/Services: Git/GitHub, Docker, AWS S3, CI/CD, MongoDB, PostgreSQL, Stripe, Pinecone, Vercel, Supabase, Zapier, Close CRM, Gemini API, OpenAI API