

# Joshua Souphanthong

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## EDUCATION

### Carleton University

Ottawa, ON

*Bachelor of Computer Science (GPA: 3.8/4.0)*

*Expected May 2027*

- Awards: President's Scholar, Carleton Academic Scholarship
- Relevant Coursework: Data Structures & Algorithms, Systems Programming, Discrete Math, Linear Algebra, Operating Systems, Probability & Statistics

## EXPERIENCE

### Software Engineer Intern

May 2025 – Present

*Clover Labs*

*Ottawa, ON*

- Developed a cross-platform **React Native** app using the **Expo**, and **Supabase**, enabling users to self-diagnose issues with 95% of inquiries resolved without escalation
- Built an automated slides generator in **React/Next.js** that aggregated **Tumblr** API content, orchestrated with **Supabase**, reducing UGC costs by producing 250–700 automated slides per hour
- 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 by up to 90%
- Engineered a **Python** pipeline to scrape and categorize user meetings with an AI model, storing results in **Supabase** to power an event-referencing sales rep training tool, achieving 99% ingestion coverage weekly

### Software Engineer Intern

July 2025 – Sept 2025

*Laroye AI*

*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

### Full-stack Developer

May 2025 – Aug 2025

*Social Coffee & Tea Co.*

*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

### 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

### CourseFlow | *TypeScript, React, Express, Supabase*

- Developed a syllabus analyzer using **Google's Gemini API** to extract and organize course details from university syllabi
- Streamlined calendar event creation by automatically converting course schedules to linked external calendar events
- Created **Express** backend enabling **AI**-powered document parsing, **PDF** storage, and user data handling
- Configured **Supabase** buckets and databases to store user profile information and manage role-based access controls

## 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