

JOSHUA SOUPHANTHONG

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EDUCATION

Carleton University

Expected Graduation: May 2028

Bachelor of Computer Science

GPA: 3.8 / 4.0

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

EXPERIENCE

Clover Labs

May 2025 - Present

Software Engineer Intern

Ottawa, ON

- Developed a cross-platform React Native app using the **Expo** framework with **TypeScript**, implementing a multi-step goal tracking and emotional check-in system
- Built 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%**
- Deployed a webhook in **Next.js** to connect **Zapier** with our backend API, automatically generating and pushing strategic company reports to **Close CRM**

Laroye AI

July 2025 - Present

Software Engineer Intern

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
- Built an infinite scroll feed page that aggregates content from **YouTube API**, **Pinterest API**, and **Bluesky API** for unified user browsing experience
- 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

Social Coffee & Tea Co.

May 2025 - Aug 2025

Full-stack Developer

Richmond Hill, ON

- Built a full-stack e-commerce storefront using **Shopify Hydrogen** framework with **React 18** and **Remix**, implementing predictive search, quick-buy functionality, and subscription-based product management
- Developed modular component architecture with optimistic UI updates and lazy loading, improving page load times and user experience across mobile and desktop platforms
- Integrated **Shopify Storefront API** and **Customer Account 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%**
- Implemented user authentication and authorization using **Clerk** to protect sensitive health data
- Established a secure file upload system using **AWS S3**, ensuring scalable and protected storage for user-uploaded 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

SKILLS

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

Libraries & Frameworks: React, Node.js, Express, Shopify Hydrogen

Tools & Services: AWS S3, MongoDB, Stripe, Pinecone, Vercel, Supabase, Zapier, Close CRM, Gemini API, OpenAI API