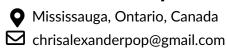
Chris Pop





in	/in/chris-a-pop
\Box	/Chris-Alexander-Pop

Experience

Upgraded Ltd. ⑤Software Engineering Intern

Toronto, ON

May 2024 - Present

- Modernised a scraper for the Canadian government's Business Benefits Finder utilizing Selenium, JavaScript, Node.js, and a GenAl model on Heroku, achieving a 75% increase in scraping speed through implementing automatic CAPTCHA bypass techniques, alongside doubling accuracy through LLM prompt engineering.
- Designed and implemented an update to the application using **Next.js**, **React**, **TypeScript**, **Tailwind CSS**, and **Vercel**, optimizing loading times by 25% through server-side rendering, caching optimizations, and refactoring.
- Engineered a mobile app scraper using JavaScript, Tesseract OCR, OpenCV, and EAST algorithm, automating
 conference attendee data extraction, and integrated with Apollo, reducing manual data entry time by 80%.
- Enhanced billing efficiency for 30 clients by integrating a Node.js server on Heroku with Zapier and APIs from OpenAI, Gmail IMAP, Stripe, and Airtable. Leveraged GenAI to interpret images and files for precise invoice management and reconciliation of mailed receipts, resulting in significant time savings and improved accuracy.
- Revamped a **JavaScript** grant auto-draft feature using a **GenAl** model, leveraging successful examples and company data from **Airtable**, reducing the operations team's writing time by 10 hours on average.

Vahana Mississauga, ON
Project Lead May 2024 – August 2024

- Architected and deployed AWS infrastructure using Amplify with TypeScript and Git for CI/CD, and AppSync
 with GraphQL, integrating front-end and back-end. Enhanced security by implementing CloudFront for secure
 communications and managing keys with Secrets Manager, ensuring data protection and operational efficiency.
- Integrated AWS Cognito for authentication, DynamoDB for database management, S3 for storage, and Pinpoint for messaging. Developed RESTful APIs using AWS Lambda and API Gateway.
- Implemented Stripe for payment processing and AWS Quantum Ledger Database with Lambda to record transaction history. Monitored and maintained 23 cloud resources through AWS CloudWatch and DevOps.
- Spearheaded mobile development with **Android Studio**, **Kotlin**, **Jetpack Compose Multi-platform**, and **Swift** UI. Contributed to the web application written in **Next.js**, **Tailwind CSS**, and **TypeScript**.
- Integrated Google Maps API for seamless UI and rapid routing logic, improving UX across all platforms.

Digital Portfolio 🗘 🌐
Solo Project

Mississauga, ON April 2024 - July 2024

- Created a web portfolio with **Next.js**, **React**, **Tailwind CSS**, **TypeScript**, and **Framer Motion**, optimizing server-side rendering to increase speeds by 75% and implementing SEO for better performance and visibility.
- Deployed and managed applications on **Vercel**, utilizing CI/CD pipelines and **Git** for robust version control, resulting in streamlined deployment processes and minimised development delay.

Skills

Languages: JavaScript (TypeScript, Node.js), Python, Kotlin, C++, Swift, HTML/CSS, SQL, VHDL Frameworks and Libraries: React, Next.js, Framer Motion, Tailwind CSS, Selenium, Google Maps API, OpenCV Cloud Platforms and Services: AWS (Amplify, AppSync, DynamoDB, CloudFront, CloudWatch, DevOps, Cognito, Lambda, S3, Secrets Manager, Pinpoint, Quantum Ledger Database), Heroku (Node.js server hosting), Vercel Software and Tools: Git, Docker, VS Code, Android Studio, SOLIDWORKS, AutoCAD, Arduino, STM32

Education

University of Waterloo

Waterloo, ON

B.ASc. Computer Engineering (GPA: 3.8/4.0)

September 2023 - April 2028

Key Coursework: Programming Fundamentals (ECE150), Digital Circuits & Systems (ECE124), Calculus 2 (MATH119)