Chris Pop

Toronto, Canada | +1 (647) 657-2005 | chrisalexanderpop@gmail.com | Chris Pop | Github | Portfolio | CAN & EU Citizen

Skills

Languages: JavaScript/TypeScript, Kotlin, Python, C++, SQL, GraphQL, HTML/CSS, Bash, VHDL, RISC-V Assembly
Frameworks & Libraries: React (Next.js), Node.js (NestJS, Express.js), Axios, Retrofit, OpenCV, Selenium
Tools & Platforms: AWS (Amplify, AppSync, CloudFormation, Cognito, DynamoDB, EC2, Lambda, S3, CloudFront, CloudWatch, Quantum Ledger Database, Pinpoint, Secrets Manager), Heroku, Vercel, Kubernetes, Docker, Airtable, Git, GitHub Actions, PostMan
APIs & Services: Stripe.js, OpenAI API, Google Maps API, AWS SDK, SendGrid, White Label APIs

Experience

Software Engineering Intern - Upgraded Technologies Ltd. **May 2024 – September 2024**
JavaScript, Python, Node.js, React (Next.js), Airtable, Heroku, Vercel, Zapier, Stripe, Selenium *Toronto, ON*

- Maintained a **full-stack web app** for Canadian businesses to access grants and tax credits, automating services and improving efficiency.
- Boosted platform **performance by 25%** using React (Next.js), and TypeScript, leveraging **server-side rendering** techniques.
- Increased grant indexing **efficiency by 90%** by modernizing a **web scraper** on Heroku using Node.js, Selenium, and a GenAI model, with a **back-end data pipeline** via Express.js and Airtable.
- Automated conference attendee **data extraction** from **mobile applications** using Node.js, **OpenCV**, Tesseract OCR, and Apollo Sales Intelligence, **reducing** time spent on customer outreach **by 80%**.
- Streamlined **billing operations** for **30+ clients** by deploying a ChatGPT-driven IMAP **mail parser** on a Heroku Node.js server with integrations with **Stripe** and Airtable, saving **10+ hours weekly** on billing reconciliation.

Projects

The Academic Weapon **September 2024 – Present**
TypeScript, React (Next.js), Recoil, Node.js (NestJS), PostgreSQL, AWS, Kubernetes, Docker, OpenCV *Waterloo, ON*

- Developing a **full-stack app** for engineering students using React, Recoil, and TypeScript, offering **study and interview tools**.
- Deployed **scalable cloud infrastructure** using Docker, Kubernetes, and AWS EC2, orchestrating **6+ Kubernetes workers** with a **load balancer** currently used by **16 users**, alongside AWS Cognito for authentication and Stripe for payment processing.
- Engineered an **AI-powered study assistant** with OpenAI and Wolfram Alpha APIs, using a **custom LLM web crawler** that retrieves and parses relevant **data in <2 seconds**, boosting study **efficiency by 40%**.
- Achieved thus far a **30% reduction in preparation time** by designing a **mock interview platform** that integrates **OpenCV**, speech-to-text APIs, and **NestJS** (Node.js) to analyze and score interviews based on verbal and non-verbal communication.
- **Reduced resume-building time by 40%** and enabled **instant versioning** for technical roles by creating a **custom ATS parser** and an **AI-powered resume builder** using OpenAI models and PostgreSQL (AWS RDS).

Vahana Rideshare Platform **May 2024 – September 2024**
TypeScript, Kotlin, Jetpack Compose, GraphQL, AWS *Mississauga, ON*

- **Led 5 engineers** in building a **rideshare platform**, spearheading the **AWS** Infrastructure as Code (**IaC**) and **Android** development.
- Deployed a **scalable IaC backend** using **AWS Amplify** and TypeScript, integrating Lambda and API Gateway for **RESTful API endpoints** tested to handle **4,000 concurrent requests** while ensuring **security** through CloudFront, Secrets Manager, and Cognito.
- Ensured system reliability for **50+ cloud resources** using AWS CloudWatch, **DevOps CI/CD pipelines**, and **automated testing**.
- Implemented **Stripe's API** for **payment processing** and recorded transaction history through **AWS Quantum Ledger Database**.
- Ensured **95% device compatibility** for the **Android app** using Kotlin and Jetpack Compose, integrating **Google Maps** for trip rendering and Retrofit for **secure communication**, and **GraphQL** with **AppSync** for connecting to the **DynamoDB database**.

Digital Portfolio **April 2024 – July 2024**
TypeScript, React (Next.js), Framer Motion, Vercel *Mississauga, ON*

- Developed a **web portfolio** with TypeScript, React **(Next.js)**, and Tailwind CSS with **server-side rendering** and image optimization.
- Integrated **Framer Motion** and **Three.js** for enhanced **animations**, boosting **performance by 75%** over prior CSS implementation.
- Launched and managed on **Vercel** with a **CI/CD pipeline** through **GitHub**, streamlining deployments and reducing delays.

Education

University of Waterloo **September 2023 – April 2028**
B.ASc. in Computer Engineering (3.8 GPA) *Waterloo, ON*
Key Coursework: Data Structures & Algorithms (C++), Digital Computers (RISC-V), Advanced Calculus 1, Numerical Methods (Matlab)