

Education

Candidate for Bachelor of Computer Science

University of Waterloo, Sep. 2019 – Apr. 2024

Faculty of Mathematics Global Scholarship (\$15,000); CS International Student Upper-Year Scholarship (\$3,000); President's Research Award (Twice, \$1,500).

Candidate for Bachelor of Business Administration

Wilfrid Laurier University, Sep. 2019 - Apr. 2024

Finance Specialization
Economics Minor

Skills

Languages /// TypeScript/JavaScript, Java, HTML, CSS, C/C++/C#, Python, Kotlin, Golang, SQL

Tools/Frameworks /// React, Vue, React Native, Unity, GraphQL, Node.js, Spring, MongoDB, Firebase, Neo4J, D3.js

Work Experience

Bloomberg LP

Software Engineering Intern

Aug. – Dec. 2023

Manhattan, New York

- Architected and implemented a **GraphQL** server layer on top of internal Financial Analytics data services using **C++** and **Python**.
- Developed and deployed a business intelligence web app with **React (TypeScript)**, **Webpack**, **Flask (Python)**, **Docker**, **Kubernetes**.

Sibros Technologies

Frontend Software Engineering Intern

Jan. – Apr. 2023

San Jose, California

- Designed and implemented from scratch a Gitlab-integrated ticketing system with **React (TypeScript)**, **HTML**, **CSS**, **Ant Design**.
- Worked with end-to-end testing tools, **Cypress** and **Playwright**, and participated in test suite migrations.

reebee Inc. (now acquired by Flipp)

Android Software Engineering Intern

Jan. – Apr. 2022

Kitchener, Ontario

- Led UI/UX redesign project while leveraging cross-functional partners to improve aesthetics and user flow of the Android *reebee* app.
- Refined the app's support for backend logging systems in **Kotlin** and fixed defects related to various Android **design patterns**.

CARFAX Canada

Product Prototyper Intern

Jan. – Apr. 2021

Waterloo, Ontario

- Developed email templates using **Figma**, **HTML**, **CSS** and cloud functions in **Node.js** to send scheduled emails through **SendGrid**.
- Built interactive internal tools in **TypeScript** to send updates to and visualize vehicle data from **cloud Firestore**.

Startup Project

Software Engineer Lead @Beyz.ai (<https://beyz.one/>)

Sep. 2023 - Now

- Personalized mock interview platform for both candidates and interviewers based on large language models and generative AI.
- Developed using **Next.js**, **React** + TypeScript, **Tailwind CSS**, Headless UI, **tRPC**, **Prisma**, **MongoDB**, and deployed through Vercel.

Research Experience

1. University of Waterloo, Human-Computer Interaction Lab (WatVis)

Jan. 2023 - Now

- Researching on **VR** communication system for annotations and data visualization in the **aviation** domain.

2. University of Waterloo, Formal Methods Group (WatForm)

May – Aug. 2023

- Co-author of **Neo4j Browser: Visualizing Variable-Aware Analysis Results**, accepted by International Conference on Software Engineering (ICSE) 2024 Demonstrations Track
- Developed dynamic visualization of the Neo4j graph database using D3.js, React, Redux and TypeScript.

3. University of Waterloo, Human-Computer Interaction Lab (WatVis)

Sep. 2022 – Apr. 2023

- Second author of **Exploring Interactive Color Palettes for Abstraction-Driven Exploratory Image Colorization**, conditionally accepted by CHI Conference on Human Factors in Computing Systems (CHI) 2024
- Designed and implemented the entire frontend portal; conducted user studies and analyzed research data.