

Languages C++, Python, Go, SQL, TypeScript, Kotlin, JavaScript, C, Gremlin Graph, Java

Frameworks Kakfa, PySpark, NestJS, Flask, React, Redux, React Native

Tools Postgres, Docker, Kubernetes, AWS, Git, Unix, Postman, Azure Cloud, CosmosDB, MySQL, Swagger

Experience

Cohere AI Python

SOFTWARE ENGINEERING INTERN

Sep 2022 - Dec 2022

- Optimizing NLP models through the development of large-scale data aggregation tools, leveraging ELT pipelines and PySpark
- · Deduplicating large datasets (800+ GB) to reduce compute requirements and improve scaling when training language models

Coinsquare Go | Python

BACKEND SOFTWARE ENGINEERING INTERN

Jan 2022 - May 2022

- Designed, developed, and tested scalable data infrastructure for a leading Canadian **cryptocurrency** exchange platform
- Reduced annual vendor costs by 30% as the primary backend developer for a new PDF generation and storage microservice
- Secured storage of trade records for 500k users by finding and eliminating a GraphQL query path traversal vulnerability
- Reduced data-fetching request latency by 25%, setting up a Kafka consumer and producer connected to Postgres
- Leveraged Docker containers and Kubernetes pods to deploy to testing environments and monitored health with Logz.io

Cloudspark Labs TypeScript | NestJS

BACKEND SOFTWARE ENGINEERING INTERN

May 2021 - Aug 2021

- Developed, debugged, integrated, and streamlined deployment of **5+ microservices** for a collection of Enterprise HR apps
- Reduced auth API requests by 15% through the development of an API Key microservice with deployment via Azure Pipelines
- Improved querying speed for 1000s of interconnected data points by 30%, switching SQL queries to Gremlin Graph Traversals
- Contributed to Microsoft's Open Source PowerPlatformConnectors 😱 by developing and submitting a Custom Connector
- Improved the efficiency of **Azure** Workflow setup by **60%** through automation of tasks using API **webhook** triggers

The Shoe Project 🗘 🔗 TypeScript | Go

SOFTWARE DEVELOPER - CREATED A FREE WEB APP FOR A NON-PROFIT ORGANIZATION

Sep 2020 - May 2021

- Built an interactive map to display 75+ stories written by Canadian immigrant women with an admin portal to manage stories
- Contributed to a Go REST API implementing JWT user auth, Mapbox API, and user roles, with deployment on Heroku

Ryerson University Aerospace Department

MATLAB | AutoCAD

SOFTWARE DEVELOPER INTERN

Aug 2019

• Optimized a test aircraft's energy efficiency by 30% by developing a MATLAB program to analyze solar panel sunlight absorption

Activities

UWaterloo Blueprint Nonprofit Consulting

PRODUCT MANAGER

April 2021 - Present

- Co-leading a team of 12 developers and designers to create a course building platform to educate about domestic abuse
- Managing delivery schedule and budget to meet client's timelines and eliminate \$5000 in current platform fees for NPO
- Conducting regular user interviews to create a comprehensive and engaging custom solution for educating 400+ users

EZventory Python/Kotlin Side Project

INVENTORY MANAGEMENT APP FOR SMALL ORGANIZATIONS. Available on Google Play!

May 2020 - Aug. 2020

- Designed to help school clubs and sports teams keep track of their supplies with easy cloud saving and CSV exports
- Python/Flask backend: REST API, JWT auth, and MySQL DB (SQLAlchemy); containerized Docker deployment on AWS EC2
- · Kotlin/Android frontend: user authentication, filtering and CRUD operations on inventory items, and HTTP API requests

Community Volunteer 480+ Volunteer Hours

Jun. 2016 - Mar. 2020

VARIOUS NONPROFIT ORGANIZATIONS

TypeScript Side Project

A TOOL TO HELP PICK A MOVIE FOR WATCH PARTIES WITH FRIENDS

Dec. 2020 - Present

• TypeScript frontend: React Native for cross-device compatibility and Redux for state management; leveraged React hooks

Education

FlickPicker 🗘 🔗

University of Waterloo Waterloo, Ontario

BACHELOR OF SOFTWARE ENGINEERING, B.SE

- CGPA: 4.0, Dean's Honours List 2020-2022
- · Awarded Kurt and Marianne Strobele Engineering Scholarship (\$24 000) for leadership and community service in tech