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Skills

Languages: C, C++, C#, Golang, Python, JavaScript, HTML5, CSS3, MATLAB

Tools / Frameworks: .NET Core, GraphQL, SQL, PostgreSQL, Kafka, Redis, EC2, Docker, Kubernetes, BigQuery, Sklearn

Version Control: Git, Microsoft TFS, Azure

Work Experience

Software Engineering Intern, Dapper Labs, (Vancouver BC)

May 2022 - Aug 2022

- Led the design and development of a recommender system for a search engine using Golang, Python, and GCP BigQuery
- Implemented logistic regression models and collaborative/content filtering with sklearn, increasing P2P sales by 23%
- Designed smart contracts for in-house blockchain Flow to support an NFT ownership and minting pipeline using Cadence
- Developed sorting, filtering, and pagination backend logic using Golang, GraphQL, PostgreSQL, Kafka, and gRPC

Software Engineering Intern, *Plenty of Fish*, (Vancouver, BC)

May 2021 - Aug 2021, Jan 2022 - Apr 2022

- Developed and maintained features in a payments system architecture with 200,000,000 registered users
- Designed and implemented a new scalable automatic pricing service that reduced DB load by 99.99% using C# and Redis
- Led the migration of the payments system to a CRM platform using Kafka, C#, and Python
- Implemented an on-call pager system to alert developers of critical errors using Terraform, Azure and Python
- Developed new discounting features for payment flow using C#, Kafka (data pipeline), and Redis (caching)
- Designed template for deploying Kubernetes jobs for internal services, using Kubernetes, Docker, and Bash

Software Developer Intern, Bell & Howell, (Waterloo, ON)

Sep 2020 - Dec 2020

- Developed features in C++ and C# for Bell & Howell's QuickCollect Rx product, an automated pharmaceutical system
- Reduced runtime of authentication and payment middleware by 25% by optimizing backend logic
- Led the frontend design and API integration of all pages in the application using C# and XAML

Junior Software Engineer Intern, Health Canada, (Ottawa, ON)

Jan 2020 - Apr 2020

- Developed scalable WPF applications using C#, XAML, and VBA for streamlining Canada's drug approval process
- Created a process that sends automated queries to a PostgreSQL database using Entity Framework 7
- Automated all daily API, Web, and Windows test suites using C# and Python

Research and Validation Intern, Photon Design (Oxford, UK)

Jul 2018 - Sep 2018

- Conducted research on the effects of parasitic light reflection in various mediums and geometries using simulation software
- Extended unit test coverage on new software builds with Python and Robot Framework
- Wrote an <u>article</u> focused on presenting a new design of a multimode interference coupler, tested using photonics modelling and optimization software

Education

University of Waterloo

2019 - 2024

Candidate for the Bachelor of Applied Sciences, Computer Engineering

Ranked within the top 3% of the ECE engineering cohort (#7/225), 3x Engineering Dean's List distinctee

Templeton Secondary School

2016 - 2019

British Columbia High School Diploma

Graduated with the highest overall average in grades 10, 11, and 12 out of a class of 150 students