Robert Craig

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ACADEMICS

Software Engineering,

University of Waterloo **4.0** GPA, **96.5%** avg 2019 – 2024

SKILLS

General

Data structures / OOP / algorithms / testing / technical communication / problem solving / RESTful API development

Languages

Kotlin / Java / Python / JavaScript / C# / C++ / C / HTML / CSS / GraphQL / SQL

Technologies/Libraries

Git / Android / ReactiveX, Kubernetes / OpenShift / Docker / Spring-boot / React.js

HOBBIES

Arts

Musical Improvisation / piano / sketching / painting / guitar

Sports

Downhill skiing / rock climbing / badminton / ping-pong

RELEVANT WORK EXPERIENCE

Splunk Sept. – Dec. 2021

Incoming Software Engineer Intern (IoT Full-Stack)

Uber Jan. – April 2021

Software Engineer Intern (Android)

- Worked on Uber's new organization-wide Android authentication module using Kotlin
- Designed, implemented, and presented an improvement to social login on Android, achieving a 2-3% lift in onboarding success
- Identified a signup and login **user experience** issue affecting **100,000 users/day**; used internal **dashboarding** tools to gather data and report impact

Global Relay May – Aug. 2020

Co-op Software Developer (Backend)

- Developed backend web microservices using Java and Spring-boot
- Designed, implemented, and presented a multi-microservice error handling strategy, which used **distributed tracing** to easily diagnose user issues
- Reduced vulnerabilities and code smells by over 90% across five microservices using SonarQube's static code analysis tool
- Proposed and completed a major refactor of two microservices, which reduced complexity by removing a service layer for client requests to pass through
- Increased Kubernetes security by creating a Docker container to pull secrets at runtime

Phoenix Data Consulting

April - Aug. 2020

Cofounder and Software Engineer

- Cofounded a pro-bono data science consulting company focused on non-profits
- Created a deck.gl layer that used a custom spatial interpolation algorithm, written in JavaScript, to help Indigenous communities better understand seasonal trends by visualizing temperature and salinity data for the water of the Hudson's Bay

PROJECTS

teagreen.ca

- Developed a music improvisation blog using React.js and Gatsby.js where I posted daily musical compositions
- Designed an easy to use web interface using styled-components and CSS to accommodate less technologically advanced family members
- Used JavaScript and MobX to create an audio player using that supports shuffle, track queues, and scrubbing

Just Your Feedback

- Won SurveyMonkey's API prize at Hack the North 2019
- Developed a **Python/Pyramids** backend to an image recognition application that can detect thumbs up/down through a web camera and automatically submit a survey to SurveyMonkey

Gyroll

- Created a gyroscope-controlled marble maze game using **C#**, **Unity**, **C**, and an **Arduino** on a team of four developers
- Simplified development by architecting an improved maze initialization process that used the object-oriented principles of **polymorphism** and **encapsulation**