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# **SKILLS**

Languages JavaScript • TypeScript • Python • C# • Java • Kotlin • C++ • Ruby • HTML • CSS

**Technologies** Node • Express • Rails • OAuth • NoSQL • SQL • GraphQL • Redis • Vue • React • Angular • .NET • Unity3D

**Tools** AWS • Azure • GCP • Firebase • Expo • Datadog • Jira • Docker • Kubernetes • Amplitude • Mode

# **EXPERIENCE**

#### **GOOGLE** | SOFTWARE DEVELOPER

Los Angeles, CA | May '20 - Aug '20

- Implemented security fixes to the Open Source **LibRaw** project for ingesting RAW footage into **Google Photos**
- Rewrote several C++ demosaicing algorithms for a 10% performance gain in post-processing image data
- Configured the project to be **fuzz tested** through **OSS-Fuzz** to improve the detection of vulnerabilities
- Transitioned the build system from **Autotools** to **Bazel** for faster incremental building and parallelization

## FAIRE | BACKEND ENGINEER

Waterloo, ON | Sept '19 - Dec '19

- Broke up a series of tasks into Amazon SQS consumable jobs with Kotlin, reducing failure rates by over 80%
- Integrated with **Datadog** to track job performance and set up alerting to monitor health and stability
- Migrated to the latest **Square Connect API** to renew existing **OAuth** tokens used to link POS systems
- Refactored the test engine SQS mock to speed up integration tests by 20% helping improve developer velocity

## MICROSOFT | SOFTWARE ENGINEER

Redmond, WA | Jan '19 - April '19

- Used **GitHub Webhooks** to add work item linking for **10,000+ users** of Azure Boards and GitHub
- Configured a redundancy job to ensure consistency using GitHub GraphQL and Azure SQL DB
- Developed a servicing job that ran on 200,000+ teams to ensure backwards compatibility of future integrations
- Published Kusto Queries to a PowerBI Dashboard to track feature usage, error rates, and performance

### MICROSOFT | EXPLORER

Redmond, WA | May '18 - Aug '18

- Architected an extensible framework for developing "quick fixes" for common C++ errors inside Visual Studio
- Developed 10+ IDE Refactoring Functions with C++/C# to improve developer productivity
- Implemented a Fuzzy Search Algorithm with compiler data for suggesting corrections to misspelled code
- Drafted spec documents by conducting user studies and analysing telemetry for new experiences/flows

#### **ENERGYHACKS** | Founder and Director

Waterloo, ON | Sept '17 - Present

- Organized uWaterloo's first Sustainability Hackathon, connecting 200+ students with mentors and sponsors
- Led the engineering team by delegating work, code reviewing and managing the website's GCP services
- Ran a social marketing campaign, utilizing SEO tactics to reach over 20,000 individuals

# **PROJECTS**

#### **DISTANCE TOGETHER**

distance-together.web.app

- A React Native app built for Android/iOS that gamifies social distancing using real time geodata
- Utilized Cloud Firestore and Cloud Functions to build out the API and Auth layers, scaling to 1,000+ users
- Delivered **25,000**+ emails and push notifications by integrating **Mailchimp's APIs** and **Expo's Push Service** with cron jobs created through **Cloud Scheduler**

#### **GIF CHAT**

gifchat1.herokuapp.com

- A chat room **Web App** that allows users to communicate solely using gifs
- Built using React and Node/Express utilizing web sockets for live chat, Bing's Search API for finding gifs and MongoDB to store message data

# **EDUCATION**

## UNIVERSITY OF WATERLOO | BACHELOR OF COMPUTER SCIENCE