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Samuel Catherasoo

Software Developer | Software Eng. Student | Graduate 2021

Experience

Software Developer Intern | Foko May 2018 – August 2018

Work on both their android app and their backend/infrastructure

- Reduced android app download size by 28%

Software Developer Intern | Shopify September 2017 – December 2017

Worked on Shopify's point of sale app and helped create some new apps

- Implemented core architecture features of a websocket communication between 2 android devices
- Wrote Stream processor in go for kafka streams for ios push notifications
- Set up CI and set up pipelines on Buildkite
- Wrote highly testable code and unit/integration tests for all features and bug fixes
- Influenced the architectural design of the app.

Developer Intern | GT-tronics June 2017 – August 2017

Worked on various projects to involving GT-tronics' custom dataexchangers

- Connect dataexchangers with android and ios devices using Bluetooth Low Energy
- Connect to GoLang server which interfaces with google speech api

Lead Software Developer | Unify March 2017 – Present

Student run start-up aimed at helping people meet new people and make friends

- Developing a RESTful API with Node.js and Express to connect the mobile app to the database
- Developing on native ios and android using RxJava/RxSwift

Co-op intern | Ericsson June 2015 – August 2015

Development project focused on improving the efficiency of hardware inventory management

- Made Inventory app using mysql and php

Personal Projects

Balance | Go

Load balancer that distributed tasks among workers in a worker pool, inspired by "Concurrency is not Parallelism" by Rob Pike.

Sticker Economy | Django, websockets, Redis, MySQL

A sticker trading app. Used Django channels and redis to make fast, scalable messaging

ResOptim | Django | Mchacks 4th place

Built online application that optimizes a resume to the specific requirements of each job description

AR Draw | Android, C#, MySQL | ConuHacks Top 5

An AR Drawing app, pretty much google's "just a line" except I made it two months before they added multiuser features

Open Source Contributions: Neovim, VSCode

Education

Bachelor in Engineering, Software Engineering with Co-op | Carleton University September 2016 – Present
GPA: 11.8/12 Undergraduate

Technical Skills

Favourite Languages: Go, Kotlin, Java, Python, C, Dart
Technologies: Android, Django, Docker, MySql, MongoDB, AWS, Google Cloud, Kubernetes
Areas of Interest: Infrastructure and Backend Development, Software Architecture, Performant and Resilient Systems.