

RAHUL CHAKRAVARTHY

3rd Year Computer Engineering

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🔧 SKILLS

Languages: Java, Kotlin, Javascript, Typescript, C++, C, Python, PHP, HTML/CSS

Databases: PostgreSQL, MySQL, MongoDB,

Frameworks: Android, Dagger2, Express.js, Angular2, Spring MVC, Hibernate, TensorFlow

Tools and Environments: Git, Ubuntu, MEAN stack, LAMP stack, Amazon Cognito, Amazon S3Filestore

👤 EDUCATION

University of Waterloo, BAsC. Computer Engineering

Expected June 2021

- Class Rank: 18/100 (2018)
- Former Lead trumpet player in Waterloo's Engineering Jazz band (2017-2018)
- President's entrance Scholarship (2016)

📁 EXPERIENCE

Mobile Software Engineering Intern at Carrot Inc. | Redwood City, California | September – December 2018

- Architected the view components for a quit date popup and orientation widget on the home screen [Android]
- Built the onboarding MVVM architecture allowing thousands of users to pair with their BLE sensors [Android]

Mobile and Backend Software Developer at Spotit Inc. | Ottawa, Ontario | February – August 2018

- Built the company's payment processing Android platform [Retrofit2, Stripe]
- Constructed a location dispatcher and location service module to be used as a medium for all user data CRUD operations [NodeJS, MongoDB]

Full Stack Software Developer at Martello Technologies Inc. | Ottawa, Ontario | January – April 2018

- Architected the data access object and UI layer for a new Mitel feed to support the onboarding of hundreds of customers [Angular2, Spring MVC, Hibernate ORM]
- Designed a data analytics rollback tool to cross compare the accuracy of Mitel's monthly licensing feed containing over 300 000 rows of data [PostgreSQL]
- Built an S3FileFetch cron job which imported customer inventory files from Amazon's S3Filestore saving the company hours of manual work [Spring MVC]

Systems Developer at the Public Knowledge Project | Vancouver, B.C | May – August 2017

- Designed a search engine to improve internal searching and archiving of over 10 000 stored records [PHP, MySQL, HTML/CSS]
- Created a client requested BePress import plugin to parse journal XML metadata and store it in company servers [Linux, Apache, MySQL, PHP]

💻 PROJECTS

Paint it! [Express.js, Angular.js, MongoDB, TensorFlow, Python, Android]

- Architecting an urban sound classification system for identifying notes played on a South Asian percussion instrument
- Building the Recurrent Neural Network classification model using TensorFlow, the web application using MEAN stack and the mobile client application in Android

Plates [Android, Express.js]

- Built and deployed to the play store, a food location and cataloging app which can effectively aid users in deciding on places to eat and cataloging previously visited restaurants

Class Link [Android, Firebase]

- Created a class base user question and answer platform to increase student involvement and interaction with the professor while maintaining client anonymity