

## Skills

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**Languages:** Java, C++, Python, Scala, HTML/CSS, PBasic, Bash, Groovy, Golang, JavaScript

**Technologies:** Git, PostgreSQL, Solr, Redis, Google Cloud Platform, Jenkins, Nexus, SonarQube, Sonatype, Veracode, Atlassian toolstack, Microsoft Azure, Elasticsearch, Kibana, Docker, CircleCI, Sentry, Segment, Salesforce

## Work Experience

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### Cryptonumerics

Toronto, ON

#### DEVOPS CLOUD DEVELOPER

Sept. - Dec. 2019

- Designed using Swagger(OAS3.0) and implemented in Golang, an API for managing datasets between microservices and storage (AWS S3, PostgreSQL)
- Built a benchmarking environment for testing proving use cases defined by potential clients
- Integrated Segment analytics into products to provide user interaction coverage to marketing, sales and support platforms
- Refactored testing suite for product to reduce test times by 80% and improve robustness

### VIA Rail Canada

Montreal, QC

#### INNOVATION INTERN

Jan. - Apr. 2019

- Designed and implemented a solution using Raspberry Pi to upload data from train cars to Azure and AWS cloud solutions for locomotive engineers to manage and respond to data streams reducing issue diagnosis times down to minutes
- Used beacon technology to enable mapping of customer and employee journeys through a train station to optimize spatial usage

### TD Bank

Toronto, ON

#### DEVOPS ENGINEER

Sept. - Dec. 2017, Apr. - Aug. 2018

- Designed and developed a shared library system to streamline continuous-integration pipeline through Jenkins
- Coordinated the migration of 40+ projects from outdated instances of Jenkins
- Designed a migration workflow to mitigate 90% of manual effort
- Provided support for developer teams as an administrator over Atlassian Toolstack
- Used the BitBucket REST API to perform project attestation on developer teams
- Compiled Jenkins Build Scan and SonarQube data in a Groovy script to send a daily report to project teams
- Increased efficiency of backup process by creating shallow copies of projects reducing storage capacity occupied
- Provided a recommendation and setup a mock for a user management permissioning model for SonarQube

### Rave Inc.

Kitchener, ON

#### BACKEND ENGINEER

Jan. - Apr. 2017

- Transitioned video service from PostgreSQL to Google Cloud Datastore improving consistency amongst transactions
- Refactored user management service written in Scala by reducing queries performed by half
- Built a responsive site using bootstrap to host product for SXSW (rave.dj)

## Projects

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### Smart Scale

#### PYTHON

Mar. 2019

- Using OCR to read digital readings on a scale and store them in the cloud to create an low-effort daily body weight journal

### Trivia Assist

#### PYTHON

Mar. 2018

- Using Google's Tesseract OCR in conjunction with Google search to provide an advantage for users in popular mobile game 'HQ Trivia'
- Explored different approaches in viewing the data gathered to arrive at the most probable answer

### Receipt Tracker

#### JAVA

Jul. 2017

- An android app using Google's Cloud Vision API and the device camera to scan and collect data from receipts

### Raspberry Pi RC Car

#### PYTHON

Jun. 2016

- Used Python to communicate accelerometer data from a mobile device over a local network to Raspberry Pi

### BattleShip Game

#### JAVA

May. 2016

- Recreated BattleShip in Java, complete with scalable textures, a resizeable game board and a computer player component