

# Jack Song

Software Engineer

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## Languages

Java Scala Python  
JavaScript Ruby C#  
C++ SQL Golang

## Tech

Spark Airflow  
Google Cloud Plat-  
form Android Pandas  
Node.js Rails  
React Webpack AWS  
Celery Docker

## Education

U. of Waterloo (2018)  
Software Engineering  
~ 90% Average  
Honors List

N. U. of Singapore  
CS, exchange

## Interests

Digital Painting  
Reading  
Sketching  
Guitar  
Rock Climbing  
Judo

## Snap



Data Engineering

Los Angeles, Sep-Dec '17

- Add alerting, robustness, and event time processing to Spark streaming pipeline
- Implement partitioned writes in Spark wrapper engine, handling data skew
- Calculate Dataproc and BigQuery costs in Airflow, shown as a Looker dashboard
- On-call shadow for production Kafka, Spark, Redis, InfluxDB, Grafana pipeline

## Maisha Meds



Data Science, Android

Nairobi, Jan-May '17

- Direct business operations with sales data, Amplitude analytics, and Pandas
- Design async data processing system with Celery and AWS for medical care
- Core Android work on offline first, data-heavy, pharmaceutical Point of Sale app
- Handle UX, security, Couchbase migrations and conflict resolution

## Square



Rails, Android

San Francisco, May-Aug '16

- Built a RESTful Rails application for voting with image attachments
- Created BLE Beacon notifications and experimented with Bluetooth compression
- Rewrote server for asset database- now REST compliant with RSpecs
- Fixed and added widgets to JS and CSS library

## Top Hat



Android

Toronto, Sep-Dec '15

- Main dev for classroom engagement app with over 100,000 installs
- Managed successful releases, hotfixes, and improved Google Play rating
- Rewrote data handling architecture and improved websockets reliability
- Pioneered agile and coding practices for improved burndowns and sprint results

## Ultimate Software



JS, C#

Weston, Jan-Apr '15

- Created an interactive, domain-specific web-scraper in JS
- Released Visual Studio extension for visualizing code dependency in libraries
- Awarded for D3.js based GUI for CI management in hackathon
- Experimented with parallel device testing and TeamCity continuous integration

## IBM



.NET full stack

Toronto, May-Aug '14

- Worked in full-time team on enterprise features for a financial cloud application
- Implemented cloud deployment replication with Azure

## Mobilized Construction

*Kotlin, Django*

Road visualization and crowd-sourced construction contracts

## Pattio

*Node, React, Docker, Webpack, WebRTC*

Social web app using voice calls for close friends and family

## Page Predictor

*Javascript, Chrome Extension*

Predicting human behavior with a JS recurrent neural network

## Arimaa Free

*Android*

Board game with 1,000+ installs on Google Play Store