

# PRIYESH PATEL

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## EXPERIENCE

### Slack | Backend Engineering Intern

San Francisco, California | Sep - Dec 2018

- Prototyped identity management microservice, isolating critical authentication components to an internal facing cluster independent of the monolith
- Built APIs to control and monitor execution of encryption backfill jobs to support the Enterprise Key Management feature for existing customers
- Investigated cardinality estimation techniques to optimize SQL index creation, thus improving query performance throughout the application

### Robinhood | Android Engineering Intern

Menlo Park, California | Jan - Apr 2018

- Piloted project wide migration to RxJava 2.0, improving specificity of reactive types and null safety for streams across the entire codebase
- Implemented and shipped the equity collections feature
- Created interface to display cryptocurrencies, with quotes updated asynchronously through polling of network endpoints with RxJava

### Tinder | Android Engineering Intern

Los Angeles, California | May - Aug 2017

- Implemented new tap-based photo navigation for the Tinder card stack, built using highly optimized views to ensure performant user interaction
- Designed and developed reactive data layer with RxJava for a new metadata endpoint, allowing unidirectional data flow from network to database to UI

### 500px | Mobile Engineering Intern

Toronto, Ontario | Jan - Apr, Sep - Dec 2016

- Responsible for initial Android integration of the Photo Quests feature, leading to a 20% rise in mobile submissions and an increase in uploads
- Profiled Android application to eliminate major bottlenecks in startup time
- Wrote an [article](#) for the engineering blog discussing a data consistency management solution for Android

### Pebble | Android Engineering Intern

Palo Alto, California | Sep - Dec 2015

- Independently drove Android side architecture and development of the Pebble Health tracking platform initial release
- Worked closely with firmware team to design a protocol for syncing binary health data between the smartwatch and phone via Bluetooth 4.0
- Wrote unit and integration tests covering new additions to the codebase

## PROJECTS

### Typist - Web App | Aug - Sept 2016

- Web based typing test written in Scala and deployed as JavaScript using the Scala.js compiler
- Built using functional reactive style with Monix

### Litho - Command Line Interface | Sep - Nov 2015

- Created debug tool for sanitizing OpenType font metadata
- Integrates with ADB to allow interchange and correction of device fonts over USB connection

### Fontster - Android App | Mar 2014 - Mar 2016

- Allows for changing system wide fonts on rooted devices
- Grossed over 1 million all-time organic downloads and has 50,000 monthly active users with 99.6% crash free sessions

### HTC Desire KitKat - AOSP Build | Mar 2013 - Jul 2014

- Built and maintained a fork of Android KitKat for the HTC Desire, a phone that had been deprecated in 2010
- Released builds to a forum group of over 100,000 users

## SKILLS

### Languages

- Java, Scala, Python, Go, Kotlin, JS
- C, C++, Rust, Haskell, SQL

### Libraries & Frameworks

- Apache Spark, Kafka, Thrift, Zookeeper
- Memcached, Redis, PostgreSQL, Vitess
- RxJava, Dagger, NumPy, Pandas

## EDUCATION

### University of Waterloo

Computer Engineering, BSc

Sep 2015 - Present

## COURSES

### Distributed Computing

University of Waterloo | 2019

### Operating Systems

University of Waterloo | 2017

### Functional Programming

Principles in Scala

Coursera | 2015

## AWARDS

### President's Scholarship

University of Waterloo | 2015

### Ontario Scholar

Ministry of Education | 2014

### Recognized Contributor

XDA Developers | 2013