

# Saquib Hafiz

4A Honours Bachelors in Computer Science #20418694

## Temporary Address

105 Beacon St  
Mountain View, CA, USA  
94040

student.cs.uwaterloo.ca/~s3hafiz  
hafiz.saquib@gmail.com  
1-(415)-200-8436

## Permanent Address

28 Dunsany Crescent  
Toronto, ON, Canada  
M9R 3W6

## Summary of Qualifications:

- Proficient in Java, C++, HTML5, CSS3, JavaScript and Python after working with Django & Android SDK
- 2+ years of Android experience in developing and maintaining applications earned through previous co-op placements as well as other personal projects visible on my GitHub page
- Thorough understanding of object oriented programming, algorithms and concurrency produced through applications in the workplace and through several personal projects.
- Passion for startups with a strong desire to tackle new challenges and take on several responsibilities

## Work Experience:

### A9.com (Amazon) – Visual Search Platform Engineer

September 2014 – December 2014

- Create Cron jobs that run concurrently on multiple machines to update the DynamoDB tables and the S3 buckets responsible for maintaining the data used by our visual search product
- Developed internal tools used widely among the company to understand large quantities of data
- Worked on abstracting machine learning models for future ventures to allow growth so that it may better rank our visual search results based on a wide variety of input
- Participated in a company hackday and constructing a receipt reader that uses OCR to track expenses

### Yelp - Full Stack Web Developer with SeatMe

January 2014 - March 2014

- Learned Python and subsequently the Django framework to implement several new features that harness the power PostgreSQL, Redis and RabbitMQ to deliver better user experience
- Constructed interactive UI using modern technology such as Backbone.js, SVG and Compass (SCSS)
- Created flexible front facing widget used by clients to make reservations from any platform/device
- Redesigned entire client guestbook page adding functionality for a better user experience
- Constructed a question & answer platform, such as StackOverflow, in Django for the Yelp hackathon
- Completely revamped the company website , seatme.yelp.com, giving it a fresh new look

### VitalHub - Android Developer

May 2013 - August 2013

- Sole Android developer working on the VitalHub application for the Nexus 7 tablet
- Designed and implemented over a dozen brand new features into the application from the ground up, this includes both UI design and backend development
- Refactored application infrastructure to allow different types of data to be user viewable
- Applied AES encryption to the entire app for secure server and device communication
- Launched version 1.1 of the VitalHub Chart Android application onto Google Play

### Pivotal Labs - Agile Engineer

September 2012 - December 2012

- Developed and maintained a large scale Android Service for an interactive tablet application
- Designed services to interact in parallel over the Android Inter-Process Communication (IPC) barrier
- Constructed a client side simulator, in Ruby, to stress test the server and mimic network traffic
- Designed and built an analytics tool in HTML5 and JavaScript to process simulator logs as well as display them using the Google Chart Tools API
- Learned and effectively implemented Android debugging tools such as the stack/heap analytics tool, DDMS, as well as the native Eclipse Android debugger

## **Maluuba - Android Development Intern**

September 2011 - January 2012

- Developed a web based application using the Yelp API, both using and not using OAuth
- Experienced with handling, creating and parsing JavaScript Object Notation (JSON) Objects
- Deployed and debugged web applications using Apache Tomcat 6.0 in a Linux environment
- Handled and learned to process API calls from a variety of providers
- Learned the frameworks of a successful start-up from upper-year students
- Used my self-taught knowledge of Android SDK to enhance the user interface

## **Technical Skills:**

<i>Languages</i>	Java, JavaScript, C++, Python, C, Ruby, Bash
<i>Web</i>	HTML5, CSS3, Less, Compass, Django, NodeJs, Backbone.js, jQuery
<i>Mobile</i>	Android SDK (8+), PhoneGap with jQueryMobile
<i>Production Software</i>	Eclipse, Sublime, Atom, Android Studio, Netbeans, jCreator, RubyMine
<i>Source Control</i>	Git, Mercurial, SVN
<i>Bug Tracker</i>	Pivotal Tracker, Jira, RedMine
<i>API</i>	Yelp, Twitter, Google Chart Tools, Dark Sky Forecast

## **Education:**

### **University of Waterloo:**

Waterloo ON, Canada

2011 - 2016

- Candidate for Bachelors of Computer Science
- Presidents Scholarship for entrance average

## **Awards and Achievements:**

- 3rd place at Google Games 2013 May 2013
  - Worked in a team of 5 tackling multiple challenges such as puzzle solving
  - Wrote and executed code in a limited amount of time to solve a problem
  - Built a giant tower of Legos with rubber ducks on them

## **Activities and Interests:**

- Developing and writing code for fun problems and challenges such as the Google Code Jam and Project Euler
- Maintain a blog where I express my opinion on the modern tech world and discuss fun challenges I've solved
- Staying active by participating in many outdoor and indoor activities
  - Exercise regularly in an effort to stay healthy
  - Play sports such as badminton, volleyball, and soccer
  - Practice and perform dances with UWHipHop (our local hip hop dance club)

Grades and References Available Upon Request