

EDUCATION

Harvard University

2011 – 2016
Cambridge, MA

Robert T. Benjamin Prize, 2012

AB in Computer Science with a secondary field in Statistics

Coursework: Data Structures and Algorithms, Mobile Software Engineering, Data Science, Visualization, User Experience & Design, Probability, Financial Statistics

Roots International High School

2009 - 2011

Valedictorian, Class of 2011; Cumulative GPA: 4.0; SAT I: 2220/2400; SAT II: 2390/2400 Islamabad, Pakistan
GCE Advanced Level: Computer Science, Math, Further Math, Physics and Applied ICT

TECHNICAL EXPERIENCE

Languages and Technologies: Experience with C, Objective C (& iOS SDK), Python, Javascript (and jQuery), Scala, PHP and SQL

Google Inc: Nest Labs

May 2015 - Sep 2015

Software Engineering Intern

- KPCB Engineering Fellow: One of 60 people selected from all over the world to be part of the program
- Implemented a new service from scratch in Scala that pulls data from Cassandra (key-value store) and displays it in human-readable format as JSON in a browser.
- Rewrote the request and response pipeline to decrease the time it takes to test the whole code base by 20%

Handy Inc

May 2014 - Sep 2014

Software Engineering Intern (iOS)

- Created an open source iOS library/cocoapod to allow 3rd party developers to interface with the Handy API.
- Built "Handybook Movers", an open source iOS app, built using the cocoapod which people can use to book moving jobs. All work here is open source and available here: <https://github.com/0ibrahim>
- Assisted engineers from third parties like *Airbnb Inc* in integrating Handy into their system using the cocoapod

Swenggco Software

May 2013 - Jan 2014

Software Engineer (iOS)

- Worked with team of 6 developers in creating half a dozen iOS apps in less than 5 months.
- Introduced a company culture of strict adherence to software engineering best practices and writing robust, bug-free, properly documented code.
- Projects: My Health Plan (to help people with Parkinson's disease), MMA (test preparation for the MCAT), BlackJack Strategy (learn best strategies for Black Jack), PhotoBlend (photo editing), InstaWorks (Instagram with added features). More info: <http://1brahim.com>

Harvard Academic Technology Group

May 2012 - Sep 2012

Presidential Technology Fellow

- Led a team of Harvard students developing software to make learning at Harvard more interactive.
- Advised faculty on the effectiveness of various technologies in enhancing the learning experience.
- Projects: Molecular animations using Javascript, an interactive ebook and an iOS app to measure human reaction time

Harvard GSAS, SAIL Project

Sep 2011 - May 2012

Lead Software Developer

- Revamped a virtual 3D environment in Unity resulting in a 200% increase in performance.
- Redesigned and implemented algorithms to control the interaction of various characters in the 3D environment.

ACADEMIC HONORS

- **KPCB Engineering Fellow** – Kleiner, Perkins, Caufield and Byers (2015) (kpcbfellows.com)
- **1st Place** – Public Safety Hackathon, Harvard University (2014)
- **Robert T. Benjamin Prize** – Eliot House, Harvard University (2012)
- **Top 10 from Pakistan** – International Math Olympiad (2011)
- **Finalist** – Intel National Science Fair, Pakistan (2011)

MISC. Harvard Ventures, Harvard Boxing Club, Sigma Alpha Epsilon