

# IRVANJIT SINGH GILL

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## EDUCATION

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**BACHELOR of APPLIED SCIENCE, COMPUTER ENGINEERING**, UNIVERSITY of WATERLOO, Apr 2018

- Relevant Courses: Distributed Computing, Programming for Performance, Algorithm Design & Analysis, Networks

## EXPERIENCE

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**LEAD VOLUNTEER DEVELOPER**, GURSEVAK.COM, Brampton ON, May 2016 - Present

- Developing iOS/Android apps for an educational charity/NPO to improve performance, UX efficiency, and fix regressions
- Managing a small team of developers and designers to rebrand digital presence across web and mobile
- Shipping updates to an active user base of ~50,000+ on iOS ([bit.ly/unlimios](https://bit.ly/unlimios)) and Android ([bit.ly/unlimdroid](https://bit.ly/unlimdroid))
- Maintaining AnvaadJS, an open-source unicode script converter for Indic languages ([bit.ly/anvaadg](https://bit.ly/anvaadg))

**INFRASTRUCTURE ENGINEERING INTERN**, TESLA INC., Palo Alto CA, Sep 2017 - Dec 2017

- Implemented a load testing framework to improve performance of internal CAD design tools used for Model 3 production
- Helped improve infrastructure performance in order to shorten design cycle iterations for the vehicle and assembly line

**IPHONE OPERATIONS SOFTWARE ENGINEERING INTERN**, APPLE INC., Cupertino CA, Sep 2016 - Dec 2016

- Developed experimental features for an internal iOS app to test manufacturing operator performance and accuracy
- Used Tableau to analyze and validate A/B test results and presented them to senior management
- Developed a Continuous Integration XCTest suite to automate user interface testing, improving release cycle efficiency

**MOBILE DEVELOPER**, CLEARBRIDGE MOBILE INC., Woodbridge ON, Jan 2016 - Apr 2016

- Worked with designers, product managers and clients to architect, develop and ship Rethink Tires for Android
- Contributed to multiple client projects including NBC ([bit.ly/nbctmdroid](https://bit.ly/nbctmdroid)) and TD UGO Wallet ([bit.ly/ugodroid](https://bit.ly/ugodroid))

**AUTOMATION ENGINEERING INTERN**, TOAST INC., Cambridge MA, Jan 2015 - Apr 2015

- Developed a framework to automate integration testing for Toast POS on web and mobile with JUnit and Appium
- Contributed to the development of new features and regression fixes for the Android POS client and server

**WEB DEVELOPER**, VECTORFACE INC., Ottawa ON, May 2014 - Aug 2014

- Developed an internal localization tool using AngularJS and Bootstrap used for game development
- Improved performance by over 50% and created a significantly streamlined UX, for faster development cycles

**iOS DEVELOPER**, VITALHUB CORP., Toronto ON, May 2013 - Aug 2013

- Implemented graph plotting for patient chart data and other client-side features for Vitalhub Chart iOS ([bit.ly/vitalhub](https://bit.ly/vitalhub))
- Redesigned the app's UI to make use of new Autolayout SDK capabilities to create dynamic and responsive views

## PROJECTS

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**RAAG NOTES for iOS**, [bit.ly/raagnotes](https://bit.ly/raagnotes), Github: [/raagnotes](https://github.com/irvanjit/raagnotes); Swift, Xcode

- iOS app to create and reference musical notation sets for Indian Classical compositions and ragas (musical scales)

**DISCOVER GURBANI for ANDROID**, [bit.ly/discovergurbani](https://bit.ly/discovergurbani), Github: [/discovergurbani](https://github.com/irvanjit/discovergurbani); Java, Android Studio

- Android app to search the Sikh scriptures in multiple languages; queries and renders JSON data from the GurbaniDB API

**QUATERLOO (WEB)**, [bit.ly/quaterloo](https://bit.ly/quaterloo), Github: [/quaterloo](https://github.com/irvanjit/quaterloo); Python/Django, SocketIO, jQuery, Foundation, Heroku

- [AngelHack 2012] Q&A platform for University of Waterloo students; post questions/answers, chat with classmates in real-time

## LANGUAGES, TECHNOLOGIES AND PLATFORMS

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- Python, Java, Objective-C, Swift, C++, C, C#, PHP, JavaScript, HTML, CSS, VHDL, Assembly (ARM, x86)
- Android, iOS, React-Native, Django, Flask, NodeJS, ReactJS, AngularJS, Sass, Linux/UNIX, MySQL, SQLite, AWS, Jenkins

