

# ARJAN SANDHU

## SOFTWARE DEVELOPER

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## Skills

### SOFTWARE LANGUAGES

Java, Groovy

Python

C, C++

SQL

HTML

CSS

JavaScript

Go

### DEVELOPMENT TOOLS

Linux

Git

AWS

Resolve Systems

Eclipse

Visual Studio

Firebase

## Awards

UBC ·

Deans Honour List - 2016  
First Year Engineering

## Activities

Private Pilots License:  
Flying single-engine  
airplanes for local  
recreational trips

UBC Intramurals: Ice  
Hockey (tier 1), Ball Hockey  
(tier 1), Basketball (tier 2),  
Flag Football (tier 2)

Young Investor Program  
2015 Case Competition  
Winner

TiE Young Entrepreneurs  
2014 Vancouver Business  
Plan and Pitch Competition  
winner

## Education

University of British Columbia  
B.ASc Computer Engineering 2019  
Commerce Minor

4 of 8 academic terms completed. 1/5 work terms completed. Available for 4 months beginning May, 2018.

Engineering Student Design Team: UBC LaunchPad  
Software Engineering and Project Team

## Employment

### TELUS

Co-op Software Developer

Vancouver, BC  
Sep 2017 to Dec 2017

#### Network Automation

- Developed and documented robust software to retrieve and react accordingly to alarms in Telus' national fiber-optic network
- Implemented alarm retrieval routines inside automatic troubleshooting protocols using Groovy and SOAP web services along with a GUI for internal use by network technicians
- Created thorough test cases to validate software modules prior to entering production
- Used agile software development methodologies such as scrum for increased team productivity

### Round Wrap Industries

IT Systems Developer

Richmond, BC  
Jul 2015 to Aug 2017

- Developed tools to automate administrative tasks in order to assist office staff
- Created a barcode-based system to track orders through stages of production which improved reliability, tracked defects, and provided accurate ETA's

### Gallium Academy

Instructor

Vancouver, BC / Sechelt, BC  
Jul 2016 to Aug 2016

- Taught high school students the fundamentals of microcontrollers, design, and entrepreneurship
- Lead instructor for lessons on circuits, Arduino hardware, and Arduino programming which supported students in creating a home-automation project

## Projects

### Find My Stuff - nwHacks

Jan 2018

- Created a web platform during a 24-hour invite only hackathon that provided users with QR codes to put on their possessions that would link to a webpage with their contact information when found
- HTML, CSS, JavaScript, Bootstrap, Firebase, AWS

### Auto Google - Personal

Dec 2017

- Used Python, OpenCV, and the Google custom search API to explore vulnerabilities in the IOS HQ trivia app
- Able to consistently retrieve trivia answers from Google and confirm how possible bots could be exploiting the app

### Smart Mirror - UBC

May 2017

- Collected data from multiple sensors via Arduino and Raspberry Pi which was then transmitted to a MySQL server on a virtual machine
- Used HTML and PHP to pull from the database and display statistics live to the user through the mirror

### Semi-Autonomous Robot - UBC

Mar 2017

- Created a DC motor driven robot controlled through an Android app over Bluetooth
- Implemented an obstacle avoidance mode along with a line following mode using raw analog input from optical sensors

## Volunteering

### Delta Kappa Epsilon Fraternity

Vancouver, BC

- 2018 Treasurer - In charge of all chapter finances including budget management for 70+ members
- 2017 Philanthropy Chairman - Raised over \$43,000 during our Stick it to Cancer ball hockey tournament

### Grind for the Mind · Administrative Assistant

Aug 2013 to Aug 2016

Vancouver, BC

- Assisted in the event planning and organization of an annual hike up Grouse Mountain in Vancouver which raised \$240,000 over 4 years through corporate and individual sponsors