

ARJAN SANDHU

SOFTWARE DEVELOPER

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Skills

SOFTWARE LANGUAGES

Java, Groovy

Python

C, C++

SQL

HTML

CSS

JavaScript

DEVELOPMENT TOOLS

Linux

Git

Resolve Systems

Eclipse

Sublime Text

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, Ball Hockey,
Basketball, Flag Football

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 2020

Commerce Minor

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

Engineering Design Team: UBC LaunchPad

App design and project team

Employment

TELUS

Co-op Software Developer

Network Automation

Vancouver, BC
Sep 2017 to Dec 2017

- 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 in 24 hours that provided users with QR codes for their possessions that would link to a webpage with the owner's contact information
- HTML, CSS, JavaScript, Bootstrap, Firebase, AWS

Smart Mirror

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

Multi-functional Robot

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

Autonomous Claw

Feb 2016

- Created an autonomous claw using an Arduino microcontroller; Ranked 1st in final performance competition among 100+ first-year engineering teams

Volunteering

Delta Kappa Epsilon Fraternity

Vancouver, BC

- 2018 Treasurer
- 2017 Philanthropy Chairman

Grind for the Mind · Administrative Assistant

Vancouver, BC

Aug 2013 to Aug 2016

- 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