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 Design Team: UBC LaunchPad
App design and project team

Employment

TELUS   Vancouver, BC
Co-op Software Developer   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   Richmond, BC
IT Systems Developer   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   Vancouver, BC / Sechelt, BC
Instructor   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

Multi-functional 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
- 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