

ARJAN SANDHU

SOFTWARE DEVELOPER

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Skills

SOFTWARE LANGUAGES

Java, Groovy
Python
C, C++
SQL
HTML
CSS
JavaScript
PHP
NodeJS

DEVELOPMENT TOOLS

Linux
Git
AWS
Resolve Systems
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

Education

University of British Columbia
B.ASc Computer Engineering 2020
Commerce Minor

Employment

TELUS

Co-op Software Developer
Network Automation

Vancouver, BC
Sept. 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
July 2015 to Aug. 2017

- Consultant for ERP software overhaul project as a bridge between software contractor and company management
- 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
July 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 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

March 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

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