

# ARJAN SANDHU SOFTWARE ENGINEER

✉ arjan.g7@hotmail.com

🌐 sandhuarjan.com

☎ 604 729 1463

📍 3471 Pacemore Ave. Richmond, BC, Canada, V7C 1N4

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## ► Education

University of British Columbia  
B.ASc Computer Engineering 2020  
Commerce Minor  
2/4 work terms completed  
5/9 academic terms completed

## ► Skills

### SOFTWARE LANGUAGES

Java  
Python  
PHP  
JavaScript  
C, C++  
SQL  
NodeJS  
React Native

### DEVELOPMENT TOOLS

Linux  
Git  
AWS  
Firebase  
PuTTY

## ► Activities

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

UBC Intramurals: Ice Hockey, Ball Hockey, Basketball, Flag Football

## ► Employment

Zaui Software  
Junior Developer

Vancouver, BC  
May 2018 to Aug. 2018

- Created a CSV file generating module for 70+ report types by building an HTML parser using PHP
- Overhauled the resource assignment interface by implementing drag and drop capability for vehicles, drivers, and passengers
- Enhanced customer order portal capabilities by adding variable order deposits and hiding/showing products based on capacity

TELUS

Co-op Software Engineer (Network Automation Division)

Vancouver, BC  
Sept. 2017 to Dec. 2017

- Implemented automatic alarm retrieval protocols using Groovy and SOAP web services for Telus' national fiber-optic network
- Streamlined the daily duties of internal network technicians by building a custom network device diagnostic dashboard

Round Wrap Industries

Part-Time Software Consultant

Richmond, BC  
July 2016 to Aug. 2018

- Acted as a bridge between upper management and a contracting company for an ERP software overhaul project
- Improved production reliability by creating a barcode-based order tracking system which provided accurate ETA's and logged defects

Gallium Academy

Instructor

Vancouver, BC / Sechelt, BC  
July 2016 to Aug. 2016

- Supported high school students in creating a home-automation project as lead instructor for lessons on circuits, Arduino hardware, and Arduino programming

## ► Projects

Custom Client Order Portal - Freelance

July 2018

- Utilized Javascript, Bootstrap, NodeJS, and Express to create a web-based custom order placement system
- Licensed the service to Round Wrap Industries to streamline their order creation process by replacing manual entry through fax and email

Find My Stuff - nwHacks

Jan. 2018

- Created a web platform during a 24-hour invite only hackathon that generated QR codes for users' possessions that linked to their contact information and sent a notification when found
- Utilized JavaScript and Bootstrap for the front-end along with a Firebase back-end and deployed on AWS

Auto Google - Personal

Dec. 2017

- Explored vulnerabilities in the IOS HQ app using Python, OpenCV, and the Google custom search API
- Consistently retrieved accurate trivia answers through keyword recognition for research in bot exploitation

Smart Mirror - UBC

May 2017

- Collected data from multiple sensors via Arduino and Raspberry Pi which was transmitted to a MySQL server on a virtual machine
- Created a synchronized cloud app using PHP and Bootstrap that displayed statistics live to the user through a mirror

## ► Extracurricular

Delta Kappa Epsilon Fraternity - UBC

- 2018 Treasurer - In charge of all chapter finances including budget management for 70+ members
- 2017 Philanthropy Chairman - Raised over \$47,000 during our Stick it to Cancer ball hockey tournament