

ARJAN SANDHU SOFTWARE ENGINEER



sandhuarjan97@gmail.com

sandhuarjan.com

604 729 1463

Vancouver, BC,
Canada

arjansandhu

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► Education

University of British
Columbia

B.ASc Computer

Engineering 2020

Minor in Commerce

► Skills

SOFTWARE LANGUAGES

Python

Java

JavaScript

Go

PHP

DEVELOPMENT TOOLS

AWS

Linux

Git

Docker

Jenkins

► Activities

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

Sports leagues: Ice
Hockey, Ball Hockey,
Basketball, Flag
Football

► Employment

Amazon

Software Development Engineer

Vancouver, BC

Aug. 2020 to Nov. 2022

- Designed and implemented systems that process millions of payments per day with accuracy, speed, and mission-critical availability at an enormous scale
- Created distributed backend Java services that increase the success rate of worldwide credit card transactions with the Payments Acceptance and Experience team

Yelp

Software Engineer Intern

San Francisco, California

May 2019 to Aug. 2019

- Built internal developer tools as a Full-Stack Engineer on the Release Engineering team
- Improved development time by optimizing bottlenecks in the Jenkins deployment platform and by creating integrations for teams to more easily manage their builds

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 customer interfaces by implementing variable order deposits, hiding/showing products based on capacity, and drag and drop capability for vehicles, drivers, and passengers

TELUS

Co-op Software Engineer (Network Automation Division)

Vancouver, BC

Sept. 2017 to Dec. 2017

- Implemented distributed alarm retrieval protocols for Telus' national fiber-optic network
- Streamlined the job of network technicians by building custom network diagnostic dashboards

► Projects

OverUnder.sandhuarjan.com

Feb. 2021 to Current

- Using machine learning in Python to predict the final score of live NBA games and using this insight to bet against vegas oddsmakers at the end of every quarter
- Utilizing live web scraping for game data and betting lines which indicate that the model is profitable over the past year

Athletes Aid - UBC

Apr. 2020

- Developed a web application on AWS for the UBC Varsity Athletics Department to track and gain insights from athlete injury data
- Consulted with stakeholders over 8 months to refine and deliver requirements for 25+ teams

KobeBuckets.sandhuarjan.com

Feb. 2020

- Trained an XGBoost model with a dataset of every shot Kobe Bryant has ever taken to predict if he could make the hypothetical shot that you specify on the website
- Modify shooting factors like shot location, year, opponent, home court, and time left in the game

Shuffle - nwHacks

Jan. 2019

- Created a React Native app during a 24-hour hackathon to generate curated playlists between 2-5 users by using the Spotify API to determine the intersection of the group's listening preferences
- Wolfram Award - Top 20 of ~130 submissions

Class Finder - UBC

Nov. 2018

- Designed and constructed a cross-platform mobile app using React Native, NodeJS, and MongoDB
- Automatically parsed student schedules to tailor efficient walking routes between classes through the Google Maps API, push notification reminders, and cloud-synced user settings

► Extracurricular

Delta Kappa Epsilon Fraternity - UBC

2017 to 2019

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