ARJAN SANDHU
SOFTWARE ENGINEER

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📍 Vancouver, BC, Canada

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▶ Education

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

▶ Skills

SOFTWARE LANGUAGES

Python
Java
JavaScript
TypeScript
PHP

DEVELOPMENT TOOLS

AWS
Linux
Git
Docker
React

▶ Activities

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

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

▶ Employment

Neutron Labs — Vancouver, BC
Founder — Jan. 2023 to Current
- Making advanced software solutions available to clients to streamline their business operations
- Building web applications for government services and manufacturing processes

Amazon — Vancouver, BC
Software Development Engineer — 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 — San Francisco, California
Software Engineer Intern — 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 — Vancouver, BC
Junior Developer — 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 — Vancouver, BC
Co-op Software Engineer (Network Automation Division) — 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

▶ 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