

# ARJAN SANDHU

## SOFTWARE ENGINEER

604 729 1463  
sandhuarjan97@gmail.com  
Vancouver, Canada  
sandhuarjan.com

## EDUCATION

### UNIVERSITY OF BRITISH COLUMBIA 2020

- B.ASc Computer Engineering
- Minor in Commerce

## SKILLS

- Python
- Java
- JavaScript/TypeScript
- PHP
- AWS
- Linux
- Docker
- React

## ACTIVITIES

### DELTA KAPPA EPSILON FRATERNITY 2017-2019

- Treasurer
- Philanthropy Chairman

### PRIVATE PILOT LICENSE

- Flying single-engine airplanes for recreational trips

### ATHLETICS

- Ice Hockey, Ball Hockey
- Basketball
- Golf

## WORK EXPERIENCE

### Marqeta

Software Development Engineer II

Dec 2024 - Present

- Building backend services to facilitate 3DS payments within the Global Risk Products team

### Neutron Labs

Founder

Jan 2023 - Present

- Designing and implementing web applications for government services and manufacturing processes through contract-based projects from requirements to delivery

### Amazon

Software Development Engineer

Aug 2020 - Nov 2022

- Designed and built 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

May 2019 - 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

May 2018 - Aug 2018

- Built an HTML parser using PHP to generate CSV files for 70+ formats of reports
- Overhauled UI components by implementing variable deposits, hiding products based on capacity, and drag and drop capability for vehicles, drivers, and passengers

### TELUS

Co-op Software Engineer

Sep 2017 - Dec 2017

- Implemented distributed alarm retrieval protocols for Telus' national fiber-optic network
- Designed custom network diagnostic dashboards for field technicians

## PROJECTS

### OverUnder.sandhuarjan.com

Feb 2021 - May 2023

- Implemented an Expert Bayesian Network in Python to predict the final score of live NBA games and used this insight to bet against Vegas oddsmakers at the end of every quarter
- Created bots for scraping live game data and betting lines to determine the model is profitable

### Athlete's 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
- Based on shooting factors such as shot location, year, opponent, home court, and time left

### Shuffle -nwHacks

Jan 2019

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