# **Aradhya Bansal**, (587) 436-0571

aradhyab.me | aradhyabansal2000@gmail.com | linkedin.com/in/aradhya-b/ | github.com/Aradhya-B

Technologies: Javascript (React, Node, Express), Python, Java, C# (Unity), Dart (Flutter), MySQL, MongoDB, Firebase, GCP

#### **EDUCATION**

BESc, Software Engineering The University of Western Ontario | Cum. GPA: 4.0/4.0 (95%)

September 2018 – April 2022

E.V. Buchanan Faculty of Engineering National Scholarship (\$30,000), Farida & R.K. Rahemtulla HBA Scholarship (\$15,000)

#### **Harvard Business School Online**

June 2019

CORe: Credential of Readiness, Pass with High Honors

Relevant Coursework: Data Structures and Algorithms, Discrete Math, Probability and Statistics, Software Design (UML)

### WORK EXPERIENCE

### STEP (Student Training in Engineering Program) Intern

May 2020 - August 2020

Google – New York City, NYC

## **Software Developer**

October 2019 - Present

LTV Numbers - Pasadena, CA

- Created architecture on the **Google Cloud Platform** that leverages a **serverless backend model**, **Pub/Sub** queue, and **Cloud SQL** to automate and 10x the processing speed of large database ingests
- Developed scalable automation scripts using Node.js and Selenium to scrape the web for required data upon user onboarding
- Architected and coded the data processing pipeline for subscription products using the Stripe API by implementing OAuth, webhooks, and historical data ingest; shipped the requested feature to all business clients

### **Software & Systems Integration Engineering Intern**

May – August | 2018, 2019 (8 Months)

General Dynamics Mission Systems - Calgary, AB

- Reduced setup time by 30% for systems integration testing across the organization by designing and developing software application GUIs for smart display units in C#/.NET that verify Serial Port RS-232, RS-242, and CAN Bus connectivity
- Independently designed & executed interoperability test cases identifying mission critical bugs in tactical communication systems
- Analyzed and debugged asynchronous method calls using multithreading in applications used by over 150 engineers
- Improved CPU and Memory efficiency by 25% by developing a solution using Mutexes to solve a software application bug
- Increased project savings by ~\$2K by using Linux, Secure Shell Protocol, and PuTTY to improve product firmware

## **PROJECTS**

### **Voice Enabled Nutrition Assistant – macroS** (1st Place Overall at Hack Western 6)

- Used **Dialogflow** to train a **natural language processing** model to handle unique user intents
- Developed **cloud functions** with **Actions on Google** and deployed then to firebase for extreme scalability and speed
- Connected voice client to backend API to return full nutritional breakdowns of convoluted queries in <3 seconds

### Full Stack Face Recognition Web Application - Smart Brain

- Designed, developed, and deployed a full stack web app that performs facial recognition using the Clarifai API
- Used **Node.js** with **Express** to write backend server providing user registration and password authentication

### LEADERSHIP ACTIVITIES & INTERESTS

## **Organizer/Web Developer** *Hack Western* 7

March 2020 - Present

- Using MERN stack to develop custom application form to be used by 2500+ applicants and live site to be used by 500+ hackers
- Responsible for backend routing, user authentication, data management, frontend development, and deployment

### President Western Founder's Network

September 2018 – March 2020

- President of the largest technology/e-ship club on campus (250+ members) hired and managed an executive team of 60+ students
- Organized a team summer retreat in Toronto to establish club mission, goals, and motivate VPs to take new initiatives
- Spoke in front of 130+ passionate students at the annual general meeting which helped lead to a 20% increase in club membership

Captain/Assistant Coach Henry Wise Wood Jr./Sr. Boys Basketball Team

October 2015 - March 2018