Aradhya Bansal

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EDUCATION

BESc, HBA, Software Engineering & Business *The University of Western Ontario* | Cum. GPA: 94% September 2018 – April 2023
E.V. Buchanan Faculty of Engineering National Scholarship (\$30,000), Farida & R.K. Rahemtulla HBA Scholarship (\$15,000)
Relevant Courses: Data Structures and Algorithms (Python), Discrete Math, Probability and Stats, Software Design (UML & Java)

Harvard Business School Online   June 2019
CORe: Credential of Readiness, Pass with High Honors

WORK EXPERIENCE

STEP (Student Training in Engineering Program) Intern   May 2020 – August 2020
Google – *Remote*

Software Developer   October 2019 - Present
LTV Numbers – *Remote*
- Researched and constructed software architecture on **Google Cloud Platform** using **Cloud Tasks**, **Pub/Sub**, and **Cloud SQL** using Node.js that stabilized SQL worker dispatch rates and increased throughput of large data ingest by more than 150%
- Developed scalable automation scripts using **Node.js** and **Selenium** to scrape the web for required data upon user on boarding
- Utilized Node.js to program the data processing pipeline for subscription products using the Stripe API; implemented **OAuth**, **webhooks**, and historical data ingest; debugged logs in bash and GCP; shipped the requested feature to all business clients
- Implemented new responsive settings page and data analysis graphs using **React** and **React-Router**

Software 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#** 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
- Increased project savings by ~\$2K by utilizing **SSH** and **Linux** to identify a product firmware bug

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

Face Recognition Web Application - *Smart Brain*
- Designed and developed the frontend architecture using **React** and the **particle.js** library
- Used **Node.js** with **Express** to write backend API that provides user registration, password authentication, and functionality

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 API development, 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/Asst. Coach *Henry Wise Wood Senior Boys Basketball Team*   September 2015 – March 2018

SKILLS: JavaScript (React, Node, Express), Python, Java, C# (Unity, .NET), Bash, Linux, MySQL, MongoDB, Firebase, GCP