

Aradhya Bansal

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WORK EXPERIENCE

Google | Software Engineering STEP Intern - Remote

May 2020 – August 2020

- Ideated, designed, and developed web application for a note sharing platform with teammates using Google Cloud resources
- Built application using MVC architecture and owned backend, creating a SQL schema in MySQL and developing API in Java
- Implemented and unit-tested critical features for platform's points system, note search, note categorization, and note ranking
- Additionally programmed game in JavaScript and compressed large geocoded dataset with Python for use with Google Maps API

Ivey Business School | Research Assistant – London, ON

May 2020 – Present

- Contributed to open-source graph similarity tool that provides fast fuzzy name matching for datasets with 30M+ rows
- Optimized a naïve graph comparison algorithm by implementing linearized belief propagation with NumPy Python

LTV Numbers | Software Developer - Remote

October 2019 – May 2020

- Stabilized SQL worker dispatch rates and increased throughput of large data ingest by more than 150%
- Coded data processing pipeline for subscription sales utilizing the Stripe API, Node.js, and Express; added OAuth, web-hooks, historical data ingest, and logic to handle returns and cancellations; shipped requested feature to clients

General Dynamics Mission Systems | Software Engineer - Calgary, AB

May 2019 – August 2019

- Reduced setup time by 30% for systems integration testing across organization by constructing software application GUIs in C#
- Crafted and executed interoperability test cases, identifying mission critical bugs in tactical communication systems

NOTEWORTHY PROJECTS

Voice Enabled Nutrition Assistant | macOS (First Place Overall out of 90+ Submissions at Hack Western 6)

- Trained a natural language processing model to handle unique user intents by using Dialogflow and Actions on Google
- Used Flutter and Firebase to create mobile application to provide nutritional breakdowns in <3 seconds

Computer Vision Enabled Bill Processor | QuickBill (First Place Overall out of 300+ Applicants at S:/Hacks 2020)

- Created an Express server using TypeScript to listen for new emails and to extract the attachment, saving info in MongoDB
- Developed optical character recognition algorithm that uses Google Cloud Vision API to extract important tokens from a bill

LEADERSHIP ACTIVITIES

President | Western Founder's Network

September 2018 – March 2020

- Managed and hired executive team of 60+ students for largest technology and business club on campus (250+ members)
- Established club mission, goals, and motivated VPs to take new initiatives by organizing summer retreat in Toronto
- Helped increase club membership by 20% by speaking in front of 130+ passionate students at annual general meeting

Organizer/Web Developer | Hack Western 7

March 2020 - Present

- Produced mailing site, judging app, and live site to be used by 500+ hackers using React, Express, and Node.js
- Acquired over \$5000 worth of sponsorship from new companies during the COVID-19 pandemic

Founder/Writer | Learn Happy (learnhappy.ca)

January 2020 - Present

- Founded lifestyle and self-improvement blog and made marketing plan to increase weekly readership to 500+

EDUCATION

University of Western Ontario, Richard Ivey School of Business

Sept 2018 – April 2022

BESc, HBA, Software Engineering & Business | Cum. GPA: 94% (4.0 / 4.0)

Relevant Courses: Data Structures and Algorithms, Software Design (UML), Discrete Math, Prob. And Stats, Multivariable Calculus

Major Awards: National Merit Scholarship, Jackson Family HBA Leaders Scholarship, Farida & R.K. Rahemtulla HBA Scholarship

Harvard Business School Online

2019

CORE: Credential of Readiness | Pass with High Honors

TECHNICAL SKILLS

JavaScript (Node, Deno, React, Vue), Java, Python (Scikit-learn), TypeScript, C#, MySQL, Bash, GCP, Azure, AWS, Firebase, MongoDB