






Aradhya Bansal

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EDUCATION

University of Western Ontario | Richard Ivey School of Business

Sept 2018 – April 2023

BESc – Software Engineering, Cum. GPA: 94% | HBA - Business Administration, Cum. GPA: 85%

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

TECHNICAL SKILLS

Python, JavaScript (React), Java, C++, TypeScript, SQL, Linux/Bash, Cloud Platforms (GCP, AWS, Azure), AI/ML (Scikit-learn, Pandas)

WORK EXPERIENCE

McKinsey & Co. | Incoming Business Analyst Intern – Toronto, Ontario

May 2022 – August 2022

Google | Software Engineer Intern - Seattle, Washington

May 2021 – August 2021

- Increased system reliability by 150% through designing a model in Python to identify the most critical test coverage gaps
- Escalated number of identifiable test coverage gaps by 400% after implementing robust environment diffing mechanism in SQL
- Accelerated time to fix critical cloud vulnerabilities by 84% after automating monitor/alert using Python and SQL
- Tripled user adoption rate of internal bug filing service after designing feature to configure custom bug lifecycles

Google | Software Engineer Intern (STEP) – New York, New York

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

Ivey Business School | Research Assistant – London, Ontario

May 2020 – May 2021

- 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 – Pasadena, California

October 2019 – May 2020

- Increased throughput of large data ingest by more than 150% after stabilizing SQL worker dispatch rates
- 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

General Dynamics Mission Systems | Software Engineer - Calgary, Alberta

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 | *macroS* ([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

Virtual Algorithmic Game | *KaraokeParty* ([First Place Overall out of 600+ Submissions at Hack the North 2020++](#))

- Developed audio similarity algorithm to compare singing clips based on pitch, notes, and tone

NLP Enabled Note Enhancer | *NerualNotes* ([First Place Overall out of 90+ Submissions at Calgary Hacks 2021](#))

- Used GCP Natural Language to summarize text and extract keywords in parallel with multithreading in Python

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)

Organizer/Web Developer | *Hack Western 7*

March 2020 – November 2020

- Produced mailing site, judging app, and live site to be used by 500+ hackers using React, Material-UI, Express, and Node.js

Quantitative Analyst | *Mustang Capital*

September 2020 – April 2021

- Implemented quantitative trading strategies and algorithms with Python to generate return on \$45,000 managed by the fund