

Caio C. Coelho

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EDUCATION

Western University - London, Ontario

09/2018 - 04/2022

Honours Bachelor of Science in Computer Science (HBSc), Minor in Software Engineering.

- 4.0 GPA | Dean's Honour List 2018-2021.
- In-Course Scholarship Year III for academic achievement.

WORK EXPERIENCE

Full-stack Developer Intern - GBatteries

05/2021 - Present

Ottawa, Ontario

- Created a Python library that uses AWS Redshift to allow the research team to easily build and perform fast SQL queries on terabytes of data; resulted in queries that were 10X faster than their previous approach, and reduced server load.
- Designed (in Figma) and developed an asset management system using React (TypeScript), FastAPI (Python), and AWS DynamoDB to track battery cells and heat blocks, allowing the lab team to better organize physical assets.

Software Engineer - VidHug

05/2020 - 04/2021

London, Ontario

- Designed, implemented, and tested new React (JavaScript) features that have been used by over 100,000 customers.
- Improved the UX by fixing pain points in the user journey and by working alongside Customer Support to find and fix issues; gradually decreased the rate of support tickets received.
- Wrote and executed Quality Assurance tests and collaborated with senior developers in code reviews and product planning to ensure important features were prioritized and launched with low defect rate.
- Worked on parts of the serverless AWS stack (Cognito, Dynamo) that enabled VidHug's exponential growth in early 2020.
- Analyzed data in Python (Pandas, Matplotlib) and presented findings to stakeholders, allowing for better decision-making.

Business Development Intern - Western University

05/2019 - 08/2019

London, Ontario

- Accelerated the growth of 8 different startups at Western's startup incubator and helped launch two new products.
- Redesigned one of the startups' websites, which lowered bounce rate from 75% to 40% and increased conversion rates.

Web Developer - JCC Construction

04/2018 - 08/2018

Guarapari, Brazil

- Designed and developed the company's website in HTML, CSS, Flask. By continuously improving it over the years, tracking SEO, and running ads, almost all customers now use the site, earning the company >\$500,000 and increasing their reach.
- Recently upgraded the website to a serverless Flask AWS implementation, which reduced load time by ~40%.

ACTIVITIES & PROJECTS

Western AI Club - Vice President of Projects

05/2021 - Present

- Re-structured the Projects portfolio by offering summer educational programs, hiring all 18 Project Managers early, and coaching teams in project planning, leading to increased technical calibre of projects and clearer responsibilities.

Western AI Club - Project Manager

09/2020 - 03/2021

- Led a team of 4 developers in building an AI model to classify songs into genres, deployed it to a Flask website
- Presented at the Canadian Undergraduate Conference on AI and published the paper "Music Genre Classification Using K-Nearest Neighbours And Neural Networks", elected top 5 (out of 20) papers by professors in the field of AI.

Alyn, Hackathon Winner - Hack Western 6

- In a team of three, created a desktop app to track users' posture and help them improve it, resulting in a prize on the 600-person hackathon and support from the school to develop the product. (JavaScript, Python, Electron, Google Cloud)

SKILLS

- **Programming Languages:** Proficient in Python, JavaScript & TypeScript. Familiar with C/C++, Java, SQL.
- **Frameworks & Libraries:** React, Flask, FastAPI, React Native, Next.js | Pandas, Matplotlib, NumPy, Keras, Scikit-learn.
- **Other:** Figma, Docker, Git, Unix, REST APIs, QA, Algorithms, Data Structures, OOP, SEO, Accounting and Business Analysis.
- **Certifications & Training:** Professional Scrum Product Owner (PSPO I), UI / UX Design Specialization (CalArts), Mobile App Development with React Native (Harvard).