Caio C. Coelho

✉ caioz.co@gmail.com   📱 [redacted]   📍 London, ON
🔗 caio-coelho   ⊙ CaioCamatta   💼 www.caio.space

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

London, Ontario
- Created a Python library that uses AWS Redshift to enable the research team to easily build and perform fast PostgreSQL queries on terabytes of data. Resulted in queries that take seconds instead of minutes, and reduced server load.
- Designed (in Figma) and developed an asset management system using React (TypeScript), FastAPI (Python), and DynamoDB to track battery cells and heat blocks, allowing the lab team to track and organize physical assets in real time.

Software Engineer - VidHug   05/2020 – 04/2021

London, Ontario
- Designed, implemented, and tested new React.js 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 QA 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 that enabled VidHug's exponential growth in early 2020.
- Analyzed large datasets in Python 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 companies at the university's startup incubator.
- Participated in the development and launch of two new products that are now on the market.
- Redesigned one of the startups' websites, which lowered bounce rate from 75% to 40% and increased conversion.

Web Developer - JCC Construction   04/2018 – 08/2018

Guarapari, Brazil
- Designed and developed the company's website in Flask, HTML, CSS. 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 server-less Flask AWS implementation, which reduced load time by ~40%.

PROJECTS & ACTIVITIES

Western AI Club
- Vice President of Projects   05/2021 – Present
  - Structuring and running the Projects portfolio with focus on improving project completion rate and technical quality.
  - Currently managing 20 project teams and hiring 20 Project Managers and 80 Developers for the 2021 cohort.
- 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.

ModuLounge Smart TV (C++, Raspberry Pi, JIRA, GTK, User Stories, Multithreading)
- Developed, in a group of 5, a cross-platform C++ smart TV app that displays various live information. Git Repo.

Alyn - Hackathon Winner (JavaScript, Python, Electron, Google Cloud, Flask REST API)
- In a team of three, created a JavaScript desktop app to track users' posture and help them improve it. Resulted in a prize on the 600-person hackathon and support from Western University to develop the product.

SKILLS

- **Programming Languages**: Proficient in Python, JavaScript & TypeScript, HTML, CSS. Familiar with C/C++, Java, SQL.
- **Frameworks & Libraries**: React, Flask, FastAPI, React Native, Next.js, Django.
- **Data Science**: Data Visualization, Machine Learning, pandas, NumPy, Keras, Scikit-learn, Matplotlib.
- **Other**: Git, Unix, REST APIs, Software QA, Algorithms, Data Structures, OOP, SEO, Figma, AWS (DynamoDB, Redshift, IAM, S3, API Gateway, Cognito), Docker, Redux, Accounting and Business Analysis, Project Management.
- **Certifications**: UI / UX Design Specialization (CalArts), Mobile App Development with React Native (Harvard).