

Alexandre Gouveia Rodrigues

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Education

- University of Toronto:** BSc in Electrical and Computer Engineering **SEP 2018 – APR 2022**

Hard Skills

- ARM Assembly, C, C++, Circuit Design, CSS, Excel, French, Function Generators, Git, HTML, Java, JavaScript, MATLAB, Multimeters, Multisim, Oscilloscopes, Portuguese, MS Project, MySQL, Python, Spanish, Quartus

Experience

COMPUTER ENGINEER | UNIVERSITY COURSES

APR 2020 – PRESENT

- Developed a caching, multi-threaded web server in C to enable parallelism and improve the run time by 55%.
- Built a user-level thread package with mutex locks and condition variables to simulate concurrency on processors.
- Programmed an OOP game in C on Altera's DE1-SoC FPGA as a final project for a computer organization course.

FREELANCE WEB DEVELOPER

MAY 2020 – AUG 2020

- Launched an ecommerce website for the Hard Hat Café to help grow the business and improve customer service.
- Created and published a Google Chrome extension with the support of APIs to facilitate user tab management.
- Designed a portfolio website using HTML, CSS, JavaScript, and jQuery to introduce myself to recruiters.

SOFTWARE ENGINEER | GEOGRAPHICAL INFORMATION SYSTEM (GIS) TEAM

JAN 2020 – APR 2020

- Coded a solution to the 'Travelling Salesman Problem' and optimized a Dijkstra's Algorithm implementation in C++ during the development of a GIS application similar to Google Maps.
- Upgraded the app's Graphical User Interface by using the EzGL graphics library to enhance the user experience.
- Maintained a clear communication system with the team through Git and with the instructors by presenting reports to both technical supervisors and less technical clients throughout the development cycle.

PROJECT MANAGER | ENGINEERING STRATEGIES AND PRACTICES

JAN 2019 – APR 2019

- Coordinated a team of 5 for the design of an optimal configuration of electric vehicle chargers using Microsoft Project to organize schedules, assign resources to tasks, and track overall progress.
- Presented the final design and delivered a written technical report to the company eCAMION.

Leadership and Community Roles

VICE-PRESIDENT | BRAZILIAN STUDENT ASSOCIATION (BRASA)

SEP 2018 – PRESENT

- Implemented marketing and advertising strategies that expanded the club's influence both locally and internationally and increased social media engagement on Instagram and Facebook by over 50%.
- Created partnerships with various clubs and negotiated with different businesses to secure both short-term and long-term sponsorships for our club events in Toronto.

HOUSE PRESIDENT | ST. MICHAEL'S COLLEGE RESIDENCE COUNCIL

SEP 2019 – APR 2020

- Planned and hosted house events alongside the residence team for 200+ students to create a supportive and inclusive residence community that encouraged involvement and respect.

ELECTRICAL CLUB FINANCE DIRECTOR | UNIVERSITY OF TORONTO

SEP 2018 – APR 2019

- Assisted in the creation of a \$42 000 budget for the club and monitored an automated Excel sheet to control expenses during the 2018-2019 academic year.