

# ALEXANDRE GOUVEIA RODRIGUES

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## EDUCATION

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### UNIVERSITY OF TORONTO

BASc Electrical and Computer Engineering  
Minor in Engineering Business and Certificate in Artificial Intelligence

Sep 2018 – June 2023

## EXPERIENCE

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### THOMSON REUTERS

Software Developer Intern

Toronto, ON

Sep 2021 – Sep 2022

- Revamped API endpoints of internal tools using C# on the .NET Framework to adhere to RESTful API best practices, enhancing compatibility and optimizing functionality.
- Automated the onboarding process for new developers to internal tools by developing a RESTful API and leveraging AWS services, significantly reducing time spent on manual tasks.
- Built an OAuth-compliant testing tool using .NET and Angular for stakeholders to assess API authorization flows, thereby reducing development time and enhancing product reliability.
- Contributed to Agile development processes within the team by participating in and periodically leading daily stand-up meetings, spearheading sprint planning sessions, and facilitating sprint retrospective sessions.

### AMAZON.COM, INC.

Software Developer Engineer Intern

Toronto, ON

May 2021 – Aug 2021

- Led the creation of a mobile web feature using React, helping advertisers visualize campaign performance on Amazon, leading to improved user engagement and increased conversion rates.
- Conducted a design review through User Acceptance Testing (UAT) and User Interface (UI) tests to ensure an optimal user experience, resulting in the successful launch of the mobile web feature.
- Evaluated the impact of the mobile web feature on user engagement and load times using Weblab, which revealed widespread adoption and minimal latency, prompting the feature's permanent integration into Amazon's website.

## PROJECTS

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### BLOCKCHAIN-BASED ELECTRONIC HEALTH RECORDS (EHR) SYSTEM

Sep 2022 – Apr 2023

- Researched the Hyperledger Fabric blockchain framework, examining components, architecture, transaction flow, and chaincode to successfully implement the project, enhancing data integrity and security measures.
- Implemented chaincode, enabling the blockchain network to validate and authorize exclusively valid transactions.
- Designed a RESTful API using Node.js and Express.js to expose chaincode functions to web applications and added user authorization using JWT tokens to ensure safe and controlled interactions with the blockchain network.

### GOOGLE CHROME TAB MANAGEMENT EXTENSION

May 2020 – Sep 2020

- Developed and published a Google Chrome extension in JavaScript, utilizing Chrome's APIs to simplify user tab management and enhance browsing experiences.

### GEOGRAPHIC INFORMATION SYSTEM (GIS) SOFTWARE

Jan 2020 – Apr 2020

- Built a GIS software program in C++, using the OpenStreetMap database API and EZGL Graphics library, enabling visualization and resolution of travel and optimization problems on maps of any city worldwide.

## SKILLS

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- **Languages:** ARM Assembly, C, C#, C++, CSS, HTML, JavaScript, Python, PostgreSQL, TypeScript
- **Tools & Frameworks:** Angular, AWS, Confluence, Docker, Figma, Git, Jira, .NET, Postman, React JS, Swagger