

# Anthony Barros

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## Professional Summary

Graduate student researcher at Western University (3.7 GPA) with demonstrated success in industry and academic projects. Completed a 16-month long internship at Versa Networks developing React UI components for SaaS applications. Led a team to 2nd place in UWO President's Challenge, creating an innovative ER wait time solution that gained attention from Ontario Ministry of Health executives. Proven track record in full-stack development using MERN stack, with expertise in React.js, JavaScript, and Python. Currently researching the viability of running machine learning algorithms on FPGAs for real-time inference.

## Experience

### Versa Networks

May 2022 – August 2023

- Title: Software Engineer – Intern
- Collaborated with a team of software engineers to build reusable UI components in React that **improved user experience and increased customer satisfaction** for the SaaS web application
- Drafted comprehensive technical reports for management that provided **insightful status updates and recommendations to drive key project decisions**
- Delivered engaging technical presentations to cross-functional groups, **demonstrating strong communication skills and ability to explain complex topics**
- Worked diligently to convert Figma wireframes into production-ready user interfaces, consistently **meeting tight deadlines** and ensuring seamless design-to-development transition
- Proactively identified and fixed hundreds of bugs in Bugzilla, **reducing technical debt and improving product quality**, while simultaneously developing new features and documentation

## Education

### Western University - B.E.Sc. Software/w Co-op (3.7 GPA)

Sept 2018 – April 2025

- **Courses:** Data Structures and Algorithms, Operating Systems, Database Management Systems, Web Applications, Networking: Principles, Protocols and Architecture, Software Requirements and Analysis
- **Clubs:** Western engineering robotics, Western chess and go club
- **Athletics:** intramural soccer, intramural basketball, intramural softball

## Projects

### UWO President's Challenge – 2<sup>nd</sup> Place

Jan 2024 – June 2024

- Developed a **full-stack web-app using the MERN stack** that would allow ER patients to wait at home
  - Collaborated with legal and healthcare specialists to develop an app that would limit liability
- Presented in front of Ontario Ministry of Health executives
- Prepared a detailed report on the problems inherent in lengthy wait times in Ontario ERs

### Trading Bot with GUI

- **Built UI components using Tkinter**, the built-in GUI framework for python
- Interacts with two different **crypto currency exchange APIs** to automate buy and sell orders
- Includes functionality to change the current “strategy” being used to execute orders

## Technical Skills

<b>Languages:</b>	JavaScript, HTML5, CSS3, Python, Java, SQL
<b>Tools:</b>	MySQL, MongoDB, Git, Docker, Jira, Postman, Vite
<b>Frameworks/Libraries:</b>	React.js, React Native, jQuery, Express, DaisyUI, Tailwind, Flask, Jest