

RUBEN PLAZA

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

EDUCATION

TORONTO METROPOLITAN UNIVERSITY

Grad. April 2023

Bachelor of Computer Engineering, Specialization in Software Engineering

- CGPA: 3.8/4.33, Dean's List.
- Relevant Courses: Engineering Algorithms and Data Structures, Object-Oriented Analysis and Design, Database Systems, Operating Systems, Advanced Algorithms, Software Design and Architecture, Software Project Management, Network Security, Software Testing & QA, Distributed & Cloud Computing.

PROFESSIONAL EXPERIENCE

TORONTO METROPOLITAN UNIVERSITY

October 2022 - May 2023

Mobile App Developer

- Transformed the user interface of the existing GPA calculator by implementing Tailwind CSS, resulting in a visually appealing and highly responsive design that significantly improved the user experience for mobile users.
- Designed and implemented a feedback functionality within the Xamarin mobile app, enabling users to provide direct feedback, resulting in an increase in user engagement and product satisfaction.
- Analyzed deployment and maintenance costs and conducted requirements gathering for software solutions to optimize the student intake process. Research-informed recommendations led to the adoption of a new platform and improved operational efficiency.

GEOTAB

May 2021 - April 2022

Software Developer Intern

- Improved the memory efficiency of the Node.js Geotab API wrapper by implementing streaming HTTP responses which allowed receiving of responses that were multiple GB versus the previous maximum of 512 MB.
- Created a web application for real-time device location mapping using SignalR and Leaflet that allowed device locations to be polled from the API every second for more accurate tracking.
- Responsible for multiple bug fixes, code maintenance, and dependency management which kept the Geotab software functioning at a high level while also keeping the Geotab codebase readable and secure.

TECHNICAL PROJECT EXPERIENCE

FACE DETECTION WEB APP

- Developed outside of my undergraduate courses and allows users to utilize the Clarifai Face Detection API in order to detect faces in images they upload.
- Successfully implemented a secure REST API with Express using authenticated routes and user authentication.
- Securely stores user information by hashing passwords in a PostgreSQL database and utilizes Redis to achieve efficient session management and caching.

SPACE LAUNCH MANAGEMENT WEB APP

- Allows users to view, add, and remove space launches stored in a MongoDB database that they have created or that have been retrieved from the SpaceX API.
- Developed in Node.js using Express with unit testing done in Jest which was then Dockerized and deployed to an AWS EC2 instance.

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TECHNICAL EXPERTISE

JavaScript, C#, Git, SQL, NoSQL, HTML, CSS, Node.js, Express, .NET Core, React, PostgreSQL, Redis, Docker.

ADDITIONAL

1ST PLACE TMU ENGINEERING COMPETITION

November 2020

- Developed a Netflix-like movie recommendation algorithm completely from scratch in a 3-member team by utilizing Python knowledge, problem-solving abilities, and teamwork skills.

SENIOR ENGINEERING TUTOR

January 2020 - April 2021

- During the 2nd and 3rd years of study, facilitated weekly calculus learning groups of 5-20 undergraduate engineering students with varying levels of ability to enhance their potential for problem-solving.

1ST PLACE COMPUTER ENGINEERING CAPSTONE

September 2022 - April 2023

- Collaborated with a team of 4 to design and build a hybrid recommender system with machine learning algorithms that powered an Android application for recommending Spotify songs to users, resulting in a 1st place win in an engineering capstone project competition.