

Pablo Ortega

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Experience

HOLMAN - Mississauga, Canada

May.2022 – Aug.2022

Software Developer Intern

- Engineered an internal **API microservice** that **automates** the migration of large datasets from one storage system environment to another using **C#, .NET core, MVC, LINQ, Redis, Oracle database**. Increased efficiency of data integration by 93%.
- Built a web-application for data visualization and analytics on fleet management metrics by developing a responsive user-interface and custom **rest APIs** that filter metric data. Leveraged **ReactJs, TypeScript, RTKQuery, D3.Js, Node.Js, Express**. Averaging 5000+ users per day.
- Revamped task scheduling service to synchronize with **PostgreSQL** database by implementing an efficient listen/notify architecture pattern written in **Go**. Reduced database load by 70%.

ARI - Mississauga, Canada

Sept.2021 – Dec.2021

Software Developer Intern

- Designed, implemented, and tested **APIs** for multiple web services that handle parallel http requests by constructing a multithreading algorithm using **C# .NET core**, reducing CPU usage by 15%.
- Developed an **interactive user-interface** for a service catalog tool by using **ReactJS, TypeScript, Redux, and Formik**. Utilized by 7000+ daily users in production environment.
- Implemented **RESTFUL API** endpoints for **CRUD** operations on vehicle metadata and improved the data access layer to interface with **Oracle database** by using **ASP.NET MVC** and **dependency injection**.

BLUE CRYSTAL - Toronto, Canada (remote)

May.2021 – Aug.2021

Full-Stack Developer Intern

- Developed a **microservice** that leverages DocuSign API to process client terms and agreement forms by using **Java, Spring, MySQL**. Reducing client support time by 40%.
- Built multiple main features for Ignite Feedback portal used by 500+ employees using **Angular, Express, Node.js & MongoDB**
- Integrated a new **GraphQL** query that supports pagination with infinite scrolling. Decreased Component's load time by 9x.

Education

University of Western Ontario - London, Canada

2019 – 2023 (Expected Graduation, April 2023)

Bachelor of Science, Computer Science

- Relevant coursework: Object-oriented design and analysis, Databases, Data Structures and Algorithms, Operating Systems, Analysis of Algorithms, Distributed Systems

Software Projects

Personal Website: www.pabloortegaa.github.io (for more projects and information).

Presence – [Code](#) (ReactJs, Express, NodeJS, MongoDB, Heroku, VoiceFlow, Figma)

- Student attendance system that leverages Amazon Alexa to record a student's absence via voice commands

Forest Guardian – [Website](#) | [Code](#) (UNITY, C#)

- Platformer shooter game powered by UNITY, deployed on UNITY play using WebGL

Visualizer – [Website](#) | [Code](#) (ReactJs, CSS, Bootstrap)

- A web-application that visualizes graph pathfinding algorithms such as Dijkstra's, DFS, BFS, and A*

Skills

Programming Languages – Java, Python, C#, TypeScript/JavaScript, Go, C++, C, SQL, PHP, GraphQL, HTML, CSS

Technologies – Spring, .NET, Django, ReactJs/Native, Expo, Express, Angular, JUnit, Jest, mongoDB, Oracle, Redis, PostgreSQL