

Leonardo Paz

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EDUCATION

Bachelor of Engineering, Software Engineering

Carleton University, Ottawa, Ontario

September 2016 – April 2021 (expected)

- Fourth year undergraduate

PROJECTS

Mobile Developer (React Native, Google Cloud, MongoDB, 2nd place)

Package Hub, UOttawaHacks Hackathon

February 2020

- Mobile app that facilitated people volunteering their homes to act as smaller post stations and receive payment per package held by mail carrier
- Wrote data access layer for MongoDB queries
- Designed clean, modular react native components and pages along with the page routing

Machine Learning Developer (Google Colab, Python, Detectron2, Weights & Biases)

Google Street View Accessibility Detector, 4th Year Project at Carleton

May 2020 – Present

- Completed transfer learning on a baseline instance segmentation model trained on the COCO Dataset to recognize inaccessible curbs, accessible curbs, accessible pedestrian signals (APS), ramps and stairs
- Created google street view parser to scrape 6000 images to create a dataset to train our computer vision model
- In progress of scaling up model built in Colab in Google Deep Learning VM and moving to AWS Sagemaker for production deployment

WORK EXPERIENCE

Web Developer (Javascript, JQuery)

Runn8 (early startup), Ottawa, Ontario

April 2019 – Present

- Designed and developed a website using Wix and Wix Code Javascript API's for more advanced logic Wix does not provide out of the box
- Developed components and workflows for displaying/managing user registration, bookings, products, page routing permissions

Software Engineer Intern/Part-time (C#, .NET, Typescript, Angular, HDFS, AWS Lambda & Alexa, MongoDB, Docker, React)

Phreesia, Ottawa, Ontario

January 2019 – Present

- Developed a prototype HL7 back end service to integrate with a new clinical partner system which oversaw pulling demographics, insurance, billing information into the Phreesia system
- Designed and created a front-end angular app for deleting patient information from Phreesia SQL databases resulting in hours saved for the DB warehouse manager deleting information manually
- Developed a pipeline to import clinical patient data to a big data server running HDFS, in turn, allowing the data science team to grab the data they need
- Created a patient check-in prototype using AWS Lambda and Alexa toolkit which would allow for patients to check in using VUI and receive visual and audio information about their appointment
- Containerized .NET Framework app in windows containers and .NET Core app (with MongoDB service) in Linux containers to talk to existing services

- Part of virtual visits ad hoc team that oversaw creating virtual patient appointments for our 25 million patients when Covid-19 hit in a timeline of 1 month.

Software Engineer Intern (C#, .NET, Typescript, Angular)

Titus, Ottawa, Ontario

May 2018 – August 2018

- Took on the responsibility to create an installer and build definitions for a new product for pipeline management of continuous integration/deployment
- Built Rest API's for integrating existing product cloud storage with a new cloud provider which lead to positive feedback from customers eager to continue using the product
- Built composing email functionality for the classification suite to be able to mark the sensitivity of an email based on a recommended classification or manual classification

Classroom Technology Support & Teaching Assistant

September 2018 – December 2018

Carleton University, Ottawa, Ontario

- Troubleshooted classroom equipment to guarantee the professor could continue the lecture as soon as possible
- Confirmed students understood the classroom material by presenting the material in a digestible, practical manner to complement the theory
- Prepared important summary notes and topics of discussion to provide the best learning experience