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Computer Engineering 2B

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Jesus Garcia Moreno

Skills

LANGUAGES

Python, C++, Elixir, JavaScript, HTML/CSS, VHDL

FRAMEWORKS & LIBRARIES

React, EmberJS, NodeJS, ExpressJS, Bootstrap, Selenium, Jest, ExUnit

DATABASES & TOOLS

Kafka, MongoDB, MySQL, Docker, Git, Linux, Sumo Logic, Datadog, CircleCI

Experience

SOFTWARE ENGINEERING INTERN | PAGERDUTY   MAY – AUG 2020

- Developed and maintained distributed, fault-tolerant **Elixir** microservices using **Kafka** as a pub-sub and queue-based messaging system, these services resided in a mission-critical data pipeline that requires maximum uptime
- Released new features in the Event Intelligence Product by following test-driven development best practices and monitored its usage through **Datadog** dashboards to improve performance visibility
- Performed several **MySQL** database migrations and worked on monolithic codebases written in **Ruby** and **EmberJS**
- Debugged and fixed customer-reported bugs by investigating **Sumo Logic** logs and utilizing internal tools

SOFTWARE ENGINEERING INTERN | MANULIFE   SEPT – DEC 2019

- Architected and developed a full-stack application with **MongoDB, ExpressJS, React,** and **NodeJS** which tracked scheduled outages for a variety of major services used by Manulife's Claims System Transformation team
- Contributed to a health-check app in **React** and **C#** that monitored the performance of microservices through API endpoints, which served as a test result and visualization service to reduce debugging time from hours to seconds
- Leveraged the **Jira API** and internal **SQL** databases utilizing NodeJS to predict the estimated date of completion for multiple project versions through a linear regression model using story points and status assigned to each issue

QA ANALYST | BIOCONNECT   JAN – APR 2019

- Built automation scripts using **Python** to improve the test cycle by reducing the time spent on manual testing
- Kickstarted the automation test suite for the BioConnect Android cloud app using **Git** and **Appium-Python** client: implemented BioConnect's API, **OOP,** and created over 50 reusable test scenarios with 5-25 assertions each
- Significantly contributed to the Postman API validation test suite by adding over 75 end-to-end test cases, resulting in approximately a total of 1000 API requests with assertions written in **JavaScript**

Projects

WATERLOOP | STUDENT DESIGN TEAM   SEPT – DEC 2019

- Joined a student design team, which is responsible for competing annually at the **SpaceX Hyperloop Challenge**
- Collaborated with team members to create a **C++** program using **TCP/IP** to connect a Raspberry Pi and Desktop together with a statically assigned IP address that allows both systems to communicate with each other
- Converted data obtained from CAN packets to **JSON** using RapidJSON for seamless client-side data processing

INSUREADVISOR | HACK WESTERN   NOV 2019

- Cooperated as a team to construct an online platform that directly matches insurance brokers with people who are seeking specialized insurance packages, which meets both the clients' and brokers' requirements
- Designed and built a **RESTful API** using **NodeJS** and **ExpressJS** which connects to a **MongoDB** cloud database to store all user data, which was deployed through Google Cloud Platform
- Developed the client-side application using **React, Bootstrap,** and **CSS** to create a responsive user interface

Education

UNIVERSITY OF WATERLOO | BASC | COMPUTER ENGINEERING   2018 – 2023

- Awarded the President's Scholarship of Distinction and recognized on the Winter 2020 Dean's Honours List
- Relevant coursework: Algorithms & Data Structures, Systems Programming & Concurrency, Fundamentals of **C++**