

Jesus Garcia Moreno

Skills

LANGUAGES

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

LIBRARIES & FRAMEWORKS

React, NodeJS, ExpressJS, Bootstrap,
PyQt5, Selenium, Jest, PyUnit

DATABASES & TOOLS

MongoDB, SQL Server, Git, Postman,
Jenkins, PCF, Linux, Visual Studio, Jira

Experience

SOFTWARE ENGINEER | MANULIFE FINANCIAL

SEPT – DEC 2019

- Architected and developed a full-stack application with **MongoDB**, **ExpressJS**, **React**, and **NodeJS** which would track scheduled outages for a variety of major services used by the Claims System Transformation team
- Contributed to a health-check app in **React** and **C#** that monitors 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
- Configured a **CI/CD** pipeline using **Jenkins** to compile and deploy the application source code to **PCF**

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**
- Worked closely with Development and QA teams in an **Agile** workflow to plan and execute tests across mobile, server-client, **RESTful APIs**, **SQL databases**, and hardware devices to ensure it meets the specified requirements

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

XPTRACK | PERSONAL PROJECT

MAR 2019

- Created a financial management app to help track expenses, such as education, food, housing, etc. and allows the user to calculate statistics for their expenses such as average daily spending, projected annual spending, etc.
- Utilized **Python**, **OOP**, and **PyQt5**, a cross-platform GUI toolkit, to design the desktop application user interface

Education

UNIVERSITY OF WATERLOO | BASC | COMPUTER ENGINEERING

2018 – 2023

- Awarded the President's Scholarship of Distinction (Given to students with an entrance average above 95%)
- Relevant coursework: Algorithms and Data Structures, Fundamentals of **C++**, Discrete Mathematics and Logic