Muhammad Ferreira

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EDUCATION

Bachelor of Engineering – Software Engineering   *Dec 2024*
Concordia University – Montreal, QC

EXPERIENCE

Ranger Design – Montreal, QC

Software Engineer Intern   *May 2022 – Aug 2024*

- Developed and maintained RESTful API microservices to integrate with the ERP system, enhancing system functionality and automation
- Automated the process of comparing opportunities from SmartSheet with sales data from Epicor/Kinetic, reducing the time spent calculating win/loss ratios by over 83%, leading to significant increase in efficiency for tracking sales success
- Resolved issues in an automated transfer system, ensuring accurate uploads and eliminating errors, which greatly reduced the need for manual corrections
- Automated KPI tracking processes, reducing the time engineers spent on KPI management by over 90%, significantly increasing operational efficiency
- Led Initiative to develop software documentation processes in a company with minimal prior software engineering expertise following industry standards

Lockheed Martin – Montreal, QC

Embedded Software Engineer – Intern   *May 2019 – Aug 2019*

- Overhauled PC and server systems, handling everything from hardware setup to software installation and configuration, ensuring fully operational and secure environments
- Managed project budgets, carefully tracking expenditures and optimizing resource allocation to stay within financial constraints
- Authored comprehensive project feasibility reports, providing detailed analysis and recommendations to support informed decision-making

PROJECTS

datum.io (React, Spring, Node.js, AWS) – Team Lead   **Demo | GitHub**

- Led a team in the development of a web application designed for hosting studies and capturing data from smart devices, ensuring a user friendly and efficient platform
- Implemented and optimized backend RESTful API's, enabling seamless data retrieval, manipulation, and storage for enhanced application performance
- Managed project priorities, deadlines, and deliverables to ensure that all features were delivered on time and met quality standards
- Contributed to design reviews, ensuring alignment with project goals and industry best practices

Covidex (Spring, Node.js, AWS) – Team Lead   **Demo | GitHub**

- Contributed to the development of a Spring Boot web application for monitoring the health status of COVID-19 patients, ensuring reliability and ease of use
- Integrated Spring Data JPA and Spring Security to provide seamless data management and robust application security.
- Implemented unit tests with JUnit, Mockito, and Selenium to ensure code quality and reliability
- Designed scalable software architecture and database schema for future growth

TECHNICAL SKILLS

- **Programming:** Java, Python, C#, Javascript, Typescript, Ruby, C, PHP, HTML, CS.
- **Frameworks:** Node.js, Spring Boot, React.js, Flask, Django, Bootstrap, Selenium, JMeter, Maven
- **Tools:** REST API, Git, AWS, Docker, Postman, JIRA, SharePoint, SQL, MongoDB, Pandas