Mustafa Choueib

SOFTWARE ENGINEER

Des Moines, Iowa

(905)-807-1500 | ✉ mustafa.choueib@hotmail.com | choueibm | in mustafa-choueib | mustafachoueib.github.io

Experience

FAST Enterprises
Des Moines, Iowa

IMPLEMENTATION CONSULTANT
January 2024 - Current

- Developed full-stack solutions in .NET to deliver essential modules for CRM, licensing, and return management
- Engineered, maintained, and refined sophisticated tax software solutions for government applications driving improvements in system performance, functionality, and reliability within complex and high-stakes environments.
- Coordinated cross-functional teams through our most successful rollout using agile and SCRUM methodologies
- Designed and optimized complex SQL queries and database schemas to speed up automated licensing and returns processing by over 20%
- Managed and prioritized production support tickets using FAST's ticket managing system
- Launched a statewide e-Services licensing portal serving thousands of businesses across Iowa

Arcelormittal Dofasco
Hamilton, Ontario

PROCESS AUTOMATION ANALYST
2020 - 2021

- Automated manual processes such as data extraction, transformation, and loading using Python and .NET applications.
- Implemented performance tuning techniques, including indexing and query optimization reducing manual processing time and improved query execution times by over 10%.
- Developed and integrated a data collection system, PhaseTrack, used to create, process and store data relevant to electro-magnetic interference in operations increasing quality control
- Developed a Tensorflow application to detect possible fires, slab quality, and process status in real time.

KunafaKings (kunafakings.ca)
Hamilton, Ontario

FULL-STACK DEVELOPER
2022 - 2023

- Designed and developed a dynamic and user-friendly e-commerce website for a Middle Eastern sweets business
- Implemented a responsive front-end using modern frameworks to ensure a visually appealing and intuitive user experience
- Built a robust back-end system to manage inventory, orders, and customer data securely and efficiently
- Implemented a custom content management system (CMS) for easy product updates, promotions, and content creation by the client
- Optimized website for SEO increasing engagement and traffic by 35%
- Increased order revenue by over 20% since the deployment of the website

Projects

Mobilite Power

PYTHON

- Developed and integrated an application that made use of sockets, real-time data collection, and machine learning to simulate and process data related to phase-array charger configurations
- Created a client-server system that autonomously ran simulations through MATLAB and transferred the encrypted result to the server using Python sockets
- Created an ML-Blackboard that processed the simulated data and predicted optimal charger configuration, increasing the speed and accuracy of the current process by over 60%

Education

MCMASTER UNIVERSITY
Hamilton, Ontario

B.SE IN SOFTWARE ENGINEERING AND MANAGEMENT, GPA: 3.4/4.0
April 19th, 2023

- Entrance Scholarship (90+ average)
- Engineering and Management pairs an undergraduate engineering degree with a core business education

Skills

Programming Languages	Python, C#, C++, Java, HTML, CSS, JavaScript, TypeScript, Swift, Visual Basic, C
Tools and Frameworks	.NET, Microsoft Azure, Linux, Microsoft SQL, PostgresQL, MongoDB, SQLite, Verilog, Git, JUnit, Pytest, REST APIs, CI/CD (Github Actions), NodeJS, React, Docker, Jira, Inventor, OpenGL, GLSL
Spoken Languages	English, Arabic