MATT SZCZERBA

FULL STACK DEVELOPER

CONTACT

Please use contact form

Please use contact form

Kitchener, ON

mszcz

EDUCATION

Software Engineering Technology
Bachelor's Degree
3.8/4 GPA
McMaster University – Part Time
2020 - 2024

Software Development
Advanced Diploma
Honours Graduate
Mohawk College
2017-2020

CERTIFICATIONS

Certified Scrum Master
Scrum Alliance - 2021

WORK EXPERIENCE

IM/IT Programmer
Environment and Climate Change Canada | 2018 – 2019 (Co-op), 2020 - Present

Performed full stack development on several regulatory and public facing applications. Responsibilities include implementing project features, performing code review, maintaining CI/CD pipelines, and creating innovative R&D projects.

- Projects written primarily in C# (ASP.NET / Blazor) and JS (Vue).
- Responsible for product deployments up to production.
- Led teams of developers in creating innovative projects that demonstrate the benefits of modern frameworks (Blazor).
- Released a privacy sensitive application used to facilitate the safe return to work for ECCC employees. This was released department wide to all 6800+ employees.

Icarus Medical
Co-Founder / Developer | 2019 - 2020

Developed and released a product with the goal of improving patient care through the reduction of specialist wait times in Canada. Icarus was developed using Python and Flask for the backend and React for the frontend.

- Collaborated closely with a team of physicians to design and implement critical features.
- Performed extensive research and development surrounding the security of patient information and compliance with PIPEDA and HIPAA regulations.
- Created a full testing suite using Enzyme and Jest.
- Icarus medical won over $10k from University of Waterloo, University of Toronto, and Mohawk college pitch competitions.

SKILLS

TECHNICAL

C#, Blazor, Python, Vue, React, JS

Enzyme, Jest

Azure DevOps & CI/CD pipelines

Elastic Stack

SQL / NoSQL databases

Docker

Passionate about designing scalable and maintainable systems using modern architectures

PERSONAL

Excellent problem-solving skills

Strong communicator

Leader

Ability to generate consensus among technical team members

PROJECTS

Application Tracking Manager (ATM)
ATM is a research and development project tasked with creating an all-in-one application monitoring system. The project leverages Blazor, SignalR Hubs, Azure DBs, CI/CD pipelines and the Elastic Stack to provide real time application tracking and monitoring. I led a team of 11 students to the successful completion of this project, leading to further modernization efforts of existing .NET applications.

Multi-Sector Air Pollutants Regulations (MSAPR)
MSAPR is a regulatory application that was developed to receive and monitor emissions data from the Oil and Gas industry. It is responsible for receiving sensitive data that is used by officials to ensure companies are in regulatory compliance. MSAPR was developed using C# and ECCC's proprietary SmartUI / United Framework. I received a recognition award for my efforts in February of 2021.

ECCC Green House Gas Emissions Reporting Application (ECCC-GHG)
ECCC-GHG is a comprehensive reporting tool used to track green house gases emitted by industry. The application serves as a critical tool for federal and provincial partners in the fight against climate change. The project's stack includes C# and the proprietary SmartUI / United framework. I received a recognition award for my efforts in May of 2021.

Species at Risk Registry (SAR)
SAR is a Canada wide effort to provide public access to critical species related information. The SAR Registry frontend was developed using Vue and TypeScript and the backend infrastructure consists of a .NET service that syncs SQL views to Azure blob storage. The front-end fetches application data via Azure Search Service indexes.

Climate Action Map (CAM)
CAM provides Canadians with an interactive way to find climate projects in their area. It uses ECCC's open-source web mapping platform RAMP, which is created with Angular, to display data in an interactive format.