MATT SZCZERBA

FULL STACK DEVELOPER

CONTACT

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- Kitchener, ON
- mszcz
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EDUCATION

Software Engineering Technology
Bachelor's Degree
Summa Cum Laude
McMaster University – Part Time
2020 - 2024

Software Development
Advanced Diploma
Honours Graduate
Mohawk College
2017-2020

CERTIFICATIONS

Certified Scrum Master
Scrum Alliance - 2021

SKILLS

TECHNICAL

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

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

WORK EXPERIENCE

Environment and Climate Change Canada
Team Lead & Full Stack Developer | 2020 – Present, 2018 – 2019 (Co-op)

- Performed full-stack development for various regulatory and public-facing applications, focusing on end-to-end implementation, code optimization, continuous integration/continuous deployment (CI/CD) processes, and pioneering research and development (R&D) projects.
- Developed and maintained software solutions predominantly utilizing C# (ASP.NET / Blazor) and JavaScript (Vue / Typescript), ensuring robust performance and user-centric functionalities.
- Led multiple development teams to enhance, modernize, and maintain a variety of software solutions including ECCC's open-source RAMP platform. This involves fostering innovation, overseeing technological upgrades, and ensuring the reliability and scalability of platforms across different projects.
- Responsible for product deployments up to production.
- Guided and consulted development teams in the strategic use of new frameworks (Blazor) to deliver modern projects that highlighted the benefits of current technological advancements.

Icarus Medical
Co-Founder / Developer | 2019 - 2020

- Developed and released a product aimed at reducing specialist wait times in Canada, utilizing Python and Flask for the backend and React for the frontend.
- Fostered a collaborative environment with healthcare professionals to create and deploy essential features, directly contributing to improved patient care solutions.
- Conducted thorough research and development to fortify patient information security, achieving compliance with PIPEDA and HIPAA standards.
- Developed a comprehensive testing framework employing Enzyme and Jest, enhancing product reliability and user experience.
- Won over $10,000 in awards from prestigious institutions such as the University of Waterloo, University of Toronto, and Mohawk College through competitive pitch presentations.

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, and CI/CD pipelines to provide up to date 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 greenhouse 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.

Reusable Accessible Mapping Platform (RAMP)
RAMP is an open-source web mapping platform that integrates seamlessly with existing applications while ensuring WCAG 2.1 AA compliance for accessibility. It supports diverse data types, uses ESRI technology for mapping, and is developed with Vue 3 and TypeScript for a modern experience.