

# M A T T S Z C Z E R B A

## FULL STACK DEVELOPER

### CONTACT

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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 completing 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

Git, TFS

Azure DevOps & CI/CD pipelines

Elastic Stack

Familiar with several Linux distributions

SQL / NoSQL databases

Docker

#### PERSONAL

Excellent problem-solving skills

Strong communicator

Leader

### PROJECTS

#### 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 to display data in an interactive format.

#### 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.