Matthew Szurkowski

📞 416-828-6377 ✉ mszurkow@gmail.com in linkedin.com/in/matthew-szurkowski ⌂ github.com/MatthewSzurkowski

Education

University of Guelph **September 2019 – April 2023**
Bachelor of Computing, Software Engineering (Honours) *Guelph, ON*

Technical Skills

Languages: C/C++, Python, JavaScript, Java, Bash, Lua, Perl, R, SQL, HTML/CSS, Ruby, Gosu
Tools: Figma, Miro, Jira, Bitbucket, Github, Jenkins, AWS, GCP, Azure, Datadog
Technologies: NodeJS, Express, Microsoft .NET, Flask, React, FastAPI, Git, Bootstrap, Docker, PostgreSQL, MySQL, Guidewire ClaimCenter

Experience

Co-operators **May 2023 – Present**
Junior Developer *Guelph, ON*

- Utilized advanced analytical skills to debug and resolve complex issues within **Guidewire ClaimCenter**, employing **Gosu** programming language to swiftly identify and rectify potential roadblocks.
- Configured **CC10 environments** on **Guidewire Cloud Console (GCC)** and set up utility servers to enable administrative data loads and streamline operations.
- Played a key role in upgrading ClaimCenter from version 9 to version 10 in the **CMC (ClaimCenter Migration to Cloud)** project, including implementing **Single Sign-On (SSO)** across multiple regions.
- Developed a customized logger integrated with **Datadog**, reducing over **1,500 recurring TeamCity CAA errors** and significantly improving system diagnostics and monitoring.
- Successfully implemented **WhatFix** into ClaimCenter, enhancing user experience with seamless in-app guidance and adoption.
- Performed comprehensive performance testing and optimization of **ClaimCenter** applications, ensuring reliability and scalability in production environments.
- Documented and standardized processes for setting up cloud environments and configurations, streamlining future upgrades and implementations for the team.

Global Burden of Animal Diseases **January 2022 – April 2023**
Software Developer *Guelph, ON*

- Developed and deployed globally accessed websites, reaching **thousands of users** worldwide and offering impactful insights into animal health.
- Utilized **machine learning** techniques to design a high-performance search engine for Global Burden of Animal Diseases (GBADs) data, achieving a **76%** reduction in query response time and greatly enhancing user efficiency and research outcomes.
- Developed a web application and **CRUD API** using **Docusaurus, React, Flask, AWS EC2, and Nginx** to allow developers and researchers to create documentation for GBADs.
- Reduced overall build time by **35%** after implementing **CI/CD** workflows with GitHub actions.
- Developed a dynamic web application leveraging multiple APIs, including a proprietary **natural language processing API**, empowering users to seamlessly explore animal data through intuitive search functionalities.

Iona Systems Ltd. **June 2022 – February 2023**
Software Developer *Oakville, ON*

- Architected **RESTful API** server using **FastAPI** for permanent file storage on the Arweave **blockchain**.
- Stored information on each **API** call to a **PostgreSQL database**.
- Created unit tests and applied linting to code base with **GitHub CI/CD**.

University of Guelph - Department of Integrative Biology **July 2022 – September 2022**
Software Developer *Guelph, ON*

- Reviewed, revised, and improved overall **React website** used by **1000+** students per semester.
- Implemented **Flask server, GitHub actions, and Docker** to create a simple **CI/CD pipeline**.
- Improved overall documentation over several repositories.