Matthew Szurkowski

416-828-6377 | mszurkow@gmail.com | linkedin.com/in/matt-szurkowski | github.com/MatthewSzurkowski

TECHNICAL SKILLS

Technical Skills: Python, C/C++, SQL, JavaScript, Java, Bash, Lua, Perl, R, Ruby, Gosu
Frameworks & Libraries: Node.js, Express.js, React, Flask, Django, FastAPI, Pandas, NumPy
Developer Tools: Git, GitHub Actions, Jenkins, Splunk, Docker, AWS, Datadog, MySQL, Guidewire ClaimCenter

EXPERIENCE

Software Developer
January 2025 – Present
Definity
Toronto, ON

- Engineered scripted loading pipelines in **Python** and **XML** to onboard **1000+ users**, groups, queues, and authority profiles into ClaimCenter, ensuring schema-validated and deterministic configuration deployments
- Integrated external property intelligence platforms (Verisk) using **REST APIs**, enhancing ClaimCenter's workflow accuracy and data ingestion quality
- Enhanced ClaimCenter modules (FNOL, Subrogation, Exposures) by extending **Gosu** code, refactoring business rules, improving API endpoints, and optimizing batch job behavior
- Developed monitoring pipelines and custom dashboards in **Datadog** to reduce integration investigation time and increase reliability

Intermediate Developer
May 2023 – January 2025
Co-operators
Guelph, ON

- Built a **Python + Datadog** logging integration that eliminated **1,500+** recurring TeamCity CAA errors, improving developer observability and reducing false-positive alerts
- Implemented **SSO (SAML/OAuth)** during the ClaimCenter v9 → v10 Cloud Migration, coordinating authentication flows across multi-region deployments
- Validated and tuned **IBM Message Broker (IIB)** message flows, environment variables, secrets, and runtime configuration parameters to ensure stable cross-environment deployments
- Integrated WhatFix using **JavaScript** and custom workflows to add contextual in-app guidance, reducing onboarding friction for claims agents
- Resolved defects and improved system performance across the ClaimCenter codebase using **Java**, **Gosu**, and **SQL**, improving stability and throughput

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

- Developed globally accessed applications using **React**, **TypeScript**, and **Docusaurus**, serving **1,000+ users** across international research teams
- Designed an ML-powered search engine using **Python**, **scikit-learn**, vectorized indexing, and NLP techniques, achieving a **76% reduction** in query time
- Built a documentation platform with a **Flask** backend, **CRUD REST API**, deployed via **AWS EC2**, **Nginx**, and **Gunicorn**, enabling researchers to generate structured data pipelines
- Reduced build times by **35%** by optimizing CI/CD pipelines using **GitHub Actions**, including dependency caching, parallelized builds, and automated static analysis
- Created a dynamic React application integrating multiple internal and external **APIs**, including a proprietary **NLP microservice** for data enrichment

EDUCATION

University of Guelph
Guelph, ON
Bachelor of Computing in Software Engineering
August 2019 – April 2023

- Technical VP, Engineers for a Sustainable World — Led all software and systems development for club projects, including automation tools, internal platforms, and technical infrastructure
- Analyst, Guelph Student Investment Council — Analyzed equities within a $100K student-managed portfolio; collaborated with team to evaluate and pitch an investment that generated a **40% return** for the fund
- Software Contributor, Gryphon Racing — Built and maintained **Python** and **C++** systems used on the Formula SAE race car, supporting telemetry and performance analysis