

Stefan Caloian

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EDUCATION

University of Waterloo

Bachelor of Applied Science - BASc, Computer Engineering

Waterloo, ON

2017 - 2022

TECHNICAL SKILLS

Languages/Frameworks: Java, Python, C/C++, C#, JavaScript, SQL, Go, Rust, React, Spring Boot

Tools/Technologies: Docker, Kubernetes, AWS, MySQL, Azure, RabbitMQ

EXPERIENCE

SmartSort Software Support Team Lead

Aug. 2023 - Present

Brock Solutions

Kitchener, ON

- Applying leadership to guide a team of 5, overseeing support cases for Brock Solutions' flagship product, SmartSort, achieving a 50% increase in resolved cases across current and legacy versions at multiple airports around the world
- Successfully resolving critical, time-sensitive software issues within tight 2-hour windows, and playing a pivotal role in ensuring the uninterrupted functionality of crucial airport luggage sortation
- Guiding customers through issue resolution with user-friendly explanations of required backend and frontend adjustments, demonstrating exceptional communication skills by translating software changes into clear terms
- Providing mentorship to a team of developers, including overseeing their learning of the SmartSort product and the software support developer role by delegating support cases and actively assisting in their resolution

Full Stack Developer

Dec. 2022 - Aug. 2023

Brock Solutions

Kitchener, ON

- Produced software to sort baggage/parcels for airports and shipping facilities using the **.NET** framework
- Developed **SQL** stored procedures and **C#** back-end functionality to create interactive reports and dashboards in **SQL Server Reporting Services**, allowing clients to monitor their airport luggage sortation services
- Configured hundreds of data tables to track the status and configuration of physical sortation devices (tilt tray sorters, tag readers, etc) across several airports, using **SQL Server Management Studio (SSMS)**
- Integrated **PLCs** via **Keplware** tags for a new luggage sortation project, implementing **PRTG Monitor** for real-time issue detection and alarm notifications

Runtime Engineer

Jun. - Aug. 2022 (Laid Off)

Cerebras

Toronto, ON

- Spearheaded a debug tool for detecting pipeline stalls in data input queue for Neural Network training using **Python**
- Worked on debugging **CLIs** to optimize usage of Machine Learning Software using the **Python Click Package**

Software Engineer Co-op

Jan. - Apr. 2021, Sept. - Dec. 2021

Infinera

Ottawa, ON

- Cut size of configuration databases by 50% by changing the database population project using **C++**, **SQL**, and the **nlohmann_json** and **sqlite3** libraries
- Created and documented new tool, using **Python**, **Tkinter** and **SQL**, which visualizes **BLOB** data values, as well as allows users to insert and retrieve **BLOB** data from database, which was used to help optimize the configuration database
- Developed unit tests to ensure proper function to tasks using the **catch.hpp** library
- Produced a database population project that dynamically creates generic databases based on parameters from an input **JSON**, enabling the project to adapt to a variety of tasks
- Received 'Outstanding' evaluation on both co-op terms on University of Waterloo Co-op evaluation system

PROJECTS

Capstone Design Project - Smart Gym Gloves | *React Native*

Feb. 2021 - May 2022

- Successfully modified gloves with accelerometers and pressure sensors to assess the performance of certain strength training exercises (bench press, curls, etc.)
- Used **Firestore** to store users' personal, health and workout data, and analysed trends using ML algorithms
- Designed a user-friendly mobile app using **Expo** and **React Native**, which can interface with the user to track their performance and share data with other users
- Recipient of the University of Waterloo ECE Capstone Symposium Award