Szymon Sarnowicz

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Experience

General Motors
Feb 2023 – Present

Software Engineer

- Spearheaded the redesign of a battery diagnostics sub-system, incorporating data retention mechanisms to ensure critical information is preserved in the event of a thermal incident
- Designed and delivered a comprehensive Python test automation workshop aimed at onboarding and upskilling team members, facilitating the seamless integration of two new test engineers
- Employed static code analysis tools and runtime instrumentation such as CppUTest to detect errors and vulnerabilities at early stages of development, minimizing software defects and improving overall code quality
- Implemented prognostics algorithms which accurately predicted potential failures in Chevrolet Bolt vehicles, resulting in approximately $480 million in savings from pre-emptive measures taken to avert recalls and associated costs
- Actively engaged in code review processes, providing constructive feedback and ensuring adherence to coding standards and best practices

Data4Good
Dec 2023 - Present

Volunteer Full Stack Developer

- Developed and maintained web application using Svelte framework for a non-profit organization specializing in summarizing ReliefWeb documents
- Integrated frontend components with Flask backend APIs to facilitate efficient data transfer and interaction, enhancing the platform's scalability and performance
- Introduced and conducted comprehensive load testing to assess the performance and scalability of the frontend and backend systems, ensuring optimal functionality under various levels of user activity and traffic

General Motors
Jul 2021 – Feb 2023

Program Manager

- Oversaw the resolution of daily build issues across various stages of development for the Cadillac Lyriq and Celestiq autonomous vehicle programs
- Tripled the amount of data collected per sprint by automating data collection request workflows, improving visibility and decision-making for project management
- Developed and documented troubleshooting procedures and best practices, empowering team members to effectively diagnose and resolve camera, radar, and LiDAR related issues independently

General Motors
Sep 2019 – Jul 2021

Software Design Engineer + Rotational Program

- As an SDE I designed and implemented wheel speed arbitration logic by integrating data from various speed sensors
- Automated calibration data management processes, eliminating 1-hour previously spent daily on manual entry

Projects

CrowdSecure | *Streamlit, Node.js, Hedera*
Nov 2023

- Awarded "Best Cybersecurity Hack" at MHack16, a 24-hour hackathon with over 350 participants
- Leveraged Hedera SDK to design and implement a groundbreaking transparent and secure donation system

Education

University of Michigan – M.S. in Applied Data Science – ML ⸻ May 2025
University of Washington – B.S. in Mechanical Engineering ⸻ Jun 2019

Skills/ Certifications

Computing in Python – Georgia Tech ⸻ Oct 2022
Credential ID **1**3731833d6e04651be94a1f20344461e

C++ for Programmers – Codecademy ⸻ Oct 2023
Credential ID 653EF3A7A4

Technical Skills: Python, C, C++, Git, JavaScript, React, Svelte, SQL, AWS, Linux, Jira