SZYMON **SARNOWICZ**

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EDUCATION

University of Michigan, School of Information — **Ann Arbor, MI**
Master In Applied Data Science (MADS), Machine Learning | GPA: 3.92/4.00 — *May 2025*
Relevant Courses: SQL & Databases, Big Data, Data Mining

University of Washington, School of Engineering — **Seattle, WA**
Bachelor of Science in Mechanical Engineering | GPA: 3.62/4.00 — June 2019
Extracurriculars: EcoCAR, Advanced Robotics

Technical Skills: C++, Python, Git, React, HTML/CSS, SQL, AWS, Linux, Javascript, Jira, Electric & Autonomous Vehicles

Certifications: Computing in Python (*Georgia Tech, 2022*) & Learn C, C++ for Programmers, Learn React (*Codecademy, 2023*)

Languages: English (Fluent), Polish (Fluent), Spanish (Basic)

EXPERIENCE

General Motors — Feb 2023 – Present
Software Engineer — Remote

- Designed, implemented, and maintained battery diagnostics, showcasing expertise in C, C++, and Python
- Constructed weekly workshop for test automation, resulting in the successful onboarding of 2 test engineers
- Improved C++ code reliability & error detection earlier in the development phase with multi-component testing
- Applied a disciplined and scientific approach to engineering, emphasizing simplicity and well-architected solutions
- Participated in 100% of code reviews and mentored new teammates on best practices

General Motors — Jul 2021 – Feb 2023
Program Manager — Warren, MI

- Managed daily build issues on multiple autonomous vehicle programs, most notably Cadillac Lyriq and Celestiq
- Incorporated kanban tools and custom forms to replace manual request process, tripling data collected per sprint
- Collaborated seamlessly with cross-functional teams, including manufacturing, researchers, and fellow engineers
- Visualized collected sensor data in easy-to-understand dashboards saving 10+ hours before PI planning
- Proactively resolved camera, radar, or LiDAR errors via Linux command line and onboard visualization software

General Motors — Sep 2019 – Jul 2021
Software Design Engineer + Rotational Program — Warren, MI

- 2-year rotational program consisted of Software Design Engineer as well as: Battery Release Engineer, CAD Engineer
- 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

PantryAI | *React, Node.js, Express, AWS EC2 & S3* — Sep 2023 – Present

- Developed a full-stack app enabling users to generate personalized recipes and groceries based on current pantry items
- Leveraged custom prompts to generate tailored responses through the OpenAI chat completions API

Custom 3D-Printer | *Python, G-code* — Nov 2018

- Utilized Python to generate G-code instructions, effectively instructing the 3D-printer during the manufacturing process
- Fabricated 90% of the structural components in-house, utilizing both laser cutting and 3D printing techniques