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
- Led battery diagnostic re-architecture enabling proper retention of diagnostic codes after a thermal event
- Owned full lifecycle of software from design requirements to architecture, deployment, and documentation
- Constructed weekly course for automating tests thru Python, resulting in the successful onboarding of 2 test engineers
- Improved C++ code reliability & error detection earlier in the development phase with multi-component testing
- 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
- Met weekly with Localization, Perception, and Prediction teams to plan routes and define scene characteristics
- 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 control logic for wheel speed arbitration based on various speed sensors
- Created automated MATLAB scripts to save model inputs/calibrations, eliminating 1hr spent daily on manual entry

PROJECTS

CrowdSecure | *Streamlit, Node.js, Hedera*   Nov 2023
- Won "Best Cybersecurity Hack" at MHack16, a 24-hour hackathon with over 350 participants
- Created a transparent and secure blockchain based platform to help empower philanthropy

PantryAI | *React, Node.js, Express, AWS EC2 & S3*   Sep 2023 – Present
- Completed full stack app to generate recipes and grocery list for the week or day based on current pantry items
- Leveraged custom prompts to generate specific responses through OpenAI chat completions API

Custom 3D-Printer | *Python, G-code*   Nov 2018
- Translated 3D-objects as Python functions to G-code guiding the printer head to requested X-Y-Z coordinates
- 90% of the structural components were designed in-house and manufactured to be laser cut or 3D-printed