

SIONA M. BEAUDOIN

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EDUCATION

Saginaw Valley State University

B.S. in Computer Science, CGPA: 3.69

University Center, MI, United States

Anticipated Graduation: May 2025

Gogebic Community College

General Education Courses, CGPA: 4.00

Houghton, MI, United States

Sept 2019 – May 2021

Finlandia University

Graphic Design Career Tech Education, CGPA: 4.00

Hancock, MI, United States

Sept 2019 – Dec 2020

SKILLS

Languages: Java, JavaScript, TypeScript, HTML5, CSS, SQL, Python, R, C, LaTeX, KaTeX, MIPS assembly

Frameworks & Libraries: React, Svelte, Next.js, Three.js, D3.js, Plotly, Pandas, Numpy, VisualBasic.NET

Developer Tools: Azure DevOps, Git, GitHub, Minitab, Adobe: Illustrator, Photoshop, & InDesign, Figma

Database Management Systems: Microsoft SQL Server Management Studio, MySQL, SQLite, MongoDB

Operating Systems: Windows, Linux (Ubuntu), MacOS

EXPERIENCE

Software Developer Intern | Operation Analytics Team

May 2023 - Present

Consumers Energy

Remote

- Conducted training sessions for various non-IT teams on utilizing **Git** and **Azure DevOps** (ADO) as part of a risk mitigation plan.
- Redesigned and updated two websites to align with company branding guidelines.
- Indexed and uploaded hundreds of Excel documents using **Python** for integration with an internal OpenAI chatbot.
- Developed an internal web application using the **React** framework and the Prime React UI library, efficiently integrating the front-end with the back-end through API calls, resulting in a smooth user experience.
- Used **SQL triggers** to create archive tables for automatic data archiving and retention to preserve historical data.
- Completed various training, including **Microsoft Azure Cloud Fundamentals**.
- Efficiently utilized **Agile** and **Scrum** methodologies to create user stories and report my progress on tasks.

Student Research Assistant | Channel State Information

July 2023 - May 2024

Saginaw Valley State University

University Center, MI

- Conducted a research project funded by the Michigan Space Grant Consortium, exploring the potential of utilizing channel state information (**CSI**) in wireless communication systems as an authentication method.
- Collected hundreds of samples of CSI data using a smartphone with the Termux Terminal application.
- Utilized **Python Notebook** files with **Plotly**, **Numpy**, and **Pandas** to analyze and visualize the RSSI data extracted from the CSI data, and created a **confusion matrix**.

Student Research Assistant | Cybersecurity Paper

Sept 2022 – March 2023

Saginaw Valley State University

University Center, MI

- Assisted a professor on a survey paper on an overview of cybersecurity attacks, trends, prediction, and detection.

Small Business Website Rework

Aug 2022 – May 2023

The Wood'n Spoon LLC

Mohawk, MI

- Developed a user-friendly front-end interface using **React** to enhance the website's performance and interactivity.

PUBLICATIONS

Bal, Tara L., **Beaudoin, Siona M.**, Carter, Angie (2024). Berries without Bugs: Recreational Foraging and a Fruit Fly Threat in Rural Michigan. *Gastronomy and Tourism*, 21-34(14). Presented at the *2020 National Junior Science and Humanities Symposium*.

PROJECTS & COMPETITIONS

- Personal Website** May 2022 – Present
sionamb.github.io *Remote*
- Created various interactive personal websites using a variety of web tools, including: CSS, SCSS, React, Bootstrap, Three.js, HTML, JavaScript, and TypeScript.
 - Created custom components, such as a carousel using a doubly linked list, and an accordion.
 - Used **Blender** to create and animate a 3D model, and integrated it into a website using **Three.js**.
- NASA Robotics Mining Competition – Lunabotics** Jan 2022 – May 2022
Saginaw Valley State University *University Center, MI*
- Worked on **object detection** using deep learning where I collected and labeled image data.
 - Engaged in community outreach by presenting our project to a FIRST Robotics team.
 - Compiled documentation of the teams progress throughout the project.

ACTIVITIES & INVOLVEMENTS

- President – Association for Computing Machinery** May 2023 – Present
Saginaw Valley State University *University Center, MI*
- Organized weekly meetings by coordinating presenters from the industry and arranging workshops to help students expand their network and enhance their resume.
- Vice President – Association for Computing Machinery** May 2022 – May 2023
Saginaw Valley State University *University Center, MI*
- Organized a High School Programming Competition using Kattis that over **150 students** from 6 high schools participated in for 2 years in a row.
- General Member – Machine Learning Club** Aug 2022 – Present
Saginaw Valley State University *University Center, MI*
- Completed weekly hands-on machine learning workshops to engage in hands-on experience in image processing using **Convolutional Neural Network**, and completed a program with 93% accuracy.
- Software Team Member – Cardinal Robotics** January 2022 – Present
Saginaw Valley State University *University Center, MI*
- Attended weekly meetings and compiled documentation for projects.
- General Member – Google Developers Student Club** Aug 2022 – May 2023
Saginaw Valley State University *University Center, MI*
- Attended weekly meetings such as a webinar with Director of AI at the University of Michigan and Michigan DevFest.

AWARDS

- Michigan Space Grant Consortium:** Faculty Led Fellowships for Undergraduates (2023-2024)
- Saginaw Valley State University:** Preseidents List (WI2023)
- Saginaw Valley State University:** Deans List (FA2021, WI2022, FA2022, FA2023, WI2024)
- Portage Health Foundation:** Scholars Class of 2021
- Lake Linden–Hubbell High School:** Foundation of Academic Achievement Scholarship (2021)
- Lake Linden–Hubbell High School:** National Honor Society (2019-2021)
- Junior Science and Humanities Symposium:** National 3rd Place Life Science Poster Presenter (2020)
- Junior Science and Humanities Symposium:** Wisconsin Regional 3rd Place Oral Presenter and National Poster Presenter Qualifier (2019)