

Benjamin Steinig

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Objective

First year computer science student passionate about driving social impact through computer science. I have proven programming, communication, and people skills, and am seeking an internship in the software engineering field.

Education

University of Michigan

Ann Arbor, Michigan, *Pursuing BSE in Computer Science*

May 2023 (expected)

- GPA: 4.00/4.00
- Relevant Courses: Programming & Introductory Data Structures (EECS 280), Discrete Math (EECS 203), (Current W20) Data Structures & Algorithms (EECS 281), (W20) Multivariable & Vector Calculus (MATH 215)

Schoolcraft College

Livonia, Michigan, *High School Dual Enrollment*

August 2019 – May 2020

- GPA: 4.00/4.00 | Relevant Courses: Introduction to C++, Advanced C++

Northville High School

Northville, Michigan

Graduated May 2020

- GPA: 3.90/4.00
- Awards: National AP Scholar (2 years), National Merit Commended Scholar
- Relevant Courses: AP Computer Science A (Java), AP Computer Science Principles (Python), AP Calculus AB & BC, AP Statistics, AP Chemistry, AP Physics C: Mechanics & Electricity and Magnetism
- Member of National Honor Society, Business Professionals of America, and Captain of Cross Country and Track teams.

Work Experience

University of Michigan – Computing for Data Literacy

Ann Arbor, Michigan, *Undergraduate Researcher*

September 2020 - Present

- Working alongside Dr. Mark Guzdial to develop programming tools to improve data literacy in social studies classes
- Building Scalar Web platform using MySQL and the CodeIgniter framework to implement custom JavaScript hooks.

Vector North America

Northville, Michigan, *Project Engineering Intern*

September 2019 – January 2020

- Implemented JIRA database software queries and filters to view and export csv tables that tracked thousands of customer hardware entries
- Gained exposure to C based embedded system programming by shadowing project engineers working on automotive brake controllers

J.S. Vig Construction

Plymouth, Michigan, *Marketing Intern*

January 2020 – March 2020

- Developed marketing contact database by constructing a Visual Basic contact entry form and automatic sorting of contact database by industry
- Created print advertisements featured in local industry publications using Microsoft Publisher and Adobe Illustrator

Accomplishments & Leadership Experience

Michigan Robotic Submarine Project Team

Software – Machine Learning

September 2020 - Present

- Working with YOLOv3 and Nvidia Jetson Nano to create real-time underwater object detection with ROS.
- Utilizing Neptune.ai machine learning experiment tracking to analyze model data and success rate.

Northville DECA Chapter

Vice President of Communications

June 2018 – May 2020

- Constructed new chapter website using the Weebly platform and implemented original HTML/CSS
- Planned and Organized community outreach events including Muscular Dystrophy Association fundraisers and care packages for active-duty armed forces personnel
- Won State champion award (2018-2020) and placed 11th Internationally in Automotive Services Marketing (2019)

Skills

Programming Languages: C++, Python, JavaScript, React.JS **Design:** HTML/CSS, LaTeX

Computer software: Microsoft Office Suite, Adobe Photoshop & Illustrator, Autodesk Inventor, Solidworks CAD

Languages: English (native professional proficiency), German (native professional proficiency)