

PROGRAMMING LANGUAGES

- JavaScript React
- Python
- HTML/CSS
- Java
- C#
- Ruby
- C++

SE SKILLS

- Git
- Scrum Development
- Design Patterns
- Assembly Basics

CS SKILLS

- Algorithms
- Statistical Analysis
- Pandas
- Training Neural Networks

Adaptive computer science student with experience in several different programming languages and a strong foundation in software development and algorithmic thinking. Currently a Sophomore studying at the Milwaukee School of Engineering.

EDUCATION

Sophomore computer science major at the Milwaukee School of Engineering graduating in fall of 2025. Completed or am currently taking the following courses in my field:

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| • Software Development I | • Computer Organization |
| • Software Development II | • Software Component Design |
| • Data Structures | • Programming in C & C++ |
| • Network Protocols | • Introduction to Artificial Intelligence |
| • Software Engineering Tools & Practices | • Software Engineering Processes |
| • Computational Science | |

PROJECTS

- Head of a small volunteer team developing and maintaining a widely-used Discord Bot in C# that uses Discord API and third-party scraping to do various search and notification functions for the site, "Wikidot."
- As a 10-week team project for one of my Software Engineering courses, developed a Java/JavaFX application, which efficiently processes data on hundreds of bus routes in a given city to give the user information on upcoming bus trips and more. This was implemented using test-driven development and a model-view-controller design pattern.
- Used graph theory to develop a more effective algorithm for determining the results of Single Transferable Vote elections with small numbers of voters and implemented it using a Python program.
- Created a portfolio site that is optimized for all relevant devices and browsers entirely from scratch using HTML and CSS. It can be found here, along with more information about me and my projects: <https://bautchc.github.io/portfolio-site>