# William Swain

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## OBJECTIVE

To work as a software engineering intern in summer 2023 to learn how to apply software knowledge and skills in a professional team environment.

## EDUCATION

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|---|---|
| Virginia Tech | Blacksburg, VA |
| Master of Engineering in Computer Science & Applications | May 2024 |

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| Virginia Tech (4.0 GPA) | Blacksburg, VA |
| Bachelor of Science in Computer Science with a minor in math | May 2023 |

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| Blue Ridge Community College (3.94 GPA) | Weyers Cave, VA |
| Associate of Science – Engineering Specialization | May 2021 |

## RELEVANT COURSEWORK

Data Structures and Algorithms, Comparative Languages, Software Design and Data Structures, Intro to Computer Organization

## SKILLS

Intermediate proficiency: Java
Basic proficiency: C, Python
Experience with Linux/Unix

## KEY PROJECTS

External Heap Sort (Java)                                                                June 2022
- Externally sorts 8-byte elements in large binary files using a given number of data buffers
- Does all data accessing, sorting, and writing by working through buffers with minimal disk accesses

Buckler (Python)                                                                       August 2022
- A typing game made to solidify object-oriented programming skills in Python
- Player types prompts with left side of keyboard while blocking attacks with the right side

SailBot Collision Detection (Python)                          February 2022 - May 2022
- SailBot is a Virginia Tech sponsored competitive design team that makes a two-meter sailboat to perform in challenges
- Worked on automated collision avoidance using lidar and object detection

## AWARDS AND ACTIVITIES

Graduated *summa cum laude* from Blue Ridge Community College in May 2021.
Admitted into Phi Theta Kappa honor society for academic achievement in October 2019.
Achieved Eagle Scout rank in November 2018.