

Jared Winburn

Computer Science student with experience in C/C++, .NET, and Python with a strong foundation in data structures, algorithms, and software development. Passionate about embedded systems and building efficient software solutions. Seeking to contribute to a collaborative engineering team while also developing my expertise further

EDUCATION

University of Kentucky

Bachelor of Science in Computer Science (3.4 GPA)

Lexington, KY

December 2026

Bluegrass Community and Technical College

Associate in Arts (3.3 GPA)

Lexington, KY

May 2023

TECHNICAL SKILLS

- **Languages:** C/C++, Python, HTML/CSS, C#, VB.NET, MATLAB
- **Concepts:** Data Structures, Algorithms, Object Oriented Programming, AI/ML Basics, CI/CD, Agile
- **Tools:** Git/GitHub, Linux/Unix, Bash, Virtual Machines, Vercel Deployment, Bash, Visual Studio
- **Technologies:** .NET, REST APIs, HPC, Blazor, Microsoft SQL Server, T-SQL

WORK EXPERIENCE

- **Hitachi Astemo Automotive** | MES Traceability Software Engineering Intern **May – August 2026**
 - Utilized an internal API to develop and maintain a Blazor web application that provides traceability data to line operators
 - Developed software that integrated Keyence vision cameras to drive DIO and capture part data
 - Implemented vital code changes in existing C# and VB.Net productions applications, to improve reliability and reduce line errors
 - Worked directly with engineers to translate production requirements and user requests into functional software solutions.
 - Assisted with deployment and maintenance of custom applications operating in a large-scale manufacturing environment
- **University of Kentucky** | *Bioinformatics Research Assistant* **March 2026 - Present**
 - Perform computational analysis of genomic and transcriptomic datasets using Linux, Python, and R
 - Develop and maintain reproducible data analysis workflows using Bash, Git, and scripting tools
 - Run and troubleshoot jobs on high-performance computing (HPC) systems for large-scale data processing
 - Maintain organized data, documentation, and version-controlled code for collaborative research projects
- **Mind Home Inc.** | *Web Development Intern* **May - August 2025**
 - Collaborated with developers to integrate, test, and deploy website enhancements using HTML, CSS, JavaScript, and Builder.io
 - Implemented interactive UI elements and optimized layout for better user experience

TECHNICAL PROJECTS

- **Tempest SPA** **Fall 2025**
A JavaScript weather application that utilizes the Tempest RESTful API and Semantic UI, deployed using Vercel
- **Sort and Search Program** **Fall 2024**
Database searching program and autocomplete features for text- file data, using binary search and various sorting algorithms in C++ to sort and search 100,000 + items
- **Water Testing Embedded System** **Fall 2023**
Developed an embedded vision system using Arduinos to detect contaminated water levels, integrating hardware sensors and motors within a team of 4 engineers to meet performance requirements