

Thomas Pearson

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Education

Salisbury University May 2026 BS, Computer Science, Software Engineering

- System Admin for the Salisbury University Cybersecurity Club
- Vice President of the Salisbury University Physics Society

Certifications

Introduction to Programming Using JavaScript

Issued by Microsoft | Credential ID: w62bD-48Cs | March 2022

JavaScript and Computer Science

Introduction to Programming Using HTML and CSS

Issued by Microsoft | Credential ID: waGal-FauU | January 2022

Cascading Style Sheets (CSS) and HTML

Skills

- C++, Python, Java, Javascript, HTML/CSS, SQL

Other

- Excel, Word, Powerpoint, Project Management

Awards & Achievements

- **GullCode Competition Winner** – Spring 2024 Semester, Salisbury University
 - Led a team of three to victory in a competitive coding event, applying advanced problem-solving and collaboration skills to solve algorithmic challenges under time pressure.
 - Worked collaboratively with team members to implement efficient solutions using data structures and algorithms.

Projects

SportsData

Designed and implemented a data management system leveraging object-oriented programming principles to model NBA and NFL players. Highlights include:

- Efficiently organized player data from CSV files into a vector-based class hierarchy using inheritance.
- Developed sorting functions powered by a custom selection sort algorithm, enabling sorting by name, weight, or height for enhanced data analysis.
- Delivered a user-friendly interface for intuitive data manipulation and insights.

ComplexNumbers

Engineered a versatile class for complex number arithmetic in C++ that prioritizes reusability and integration. Features:

- Overloaded arithmetic operators, including the \wedge operator, to support seamless calculations involving complex numbers.
- Compatibility with external libraries like C++ Bitmap, empowering users to create graphical representations of mathematical concepts.
- Modular design, ensuring ease of adaptation for diverse applications, from academic research to creative visualization projects.

Work Experience

Lab Assistant - Computer Science I

Salisbury University, Salisbury, MD

August 2023 - December 2023

- Supported students mastering foundational C++ programming concepts, including conditional statements, loops, arrays, classes, and inheritance.
- Provided hands-on guidance during lab sessions to reinforce classroom learning and foster a deeper understanding of programming principles.

Lab Assistant - Computer Science II

Salisbury University, Salisbury, MD

February 2024 - May 2024

- Assisted students with advanced C++ topics such as data structures (linked lists, stacks, queues, binary search trees) and recursion problems ($n \times n$ eight queens, Tower of Hanoi).
- Hosted office hours to provide personalized support and ensured timely progress on lab assignments.
- Maintained availability after hours to address student questions and promote successful learning outcomes.

Receptionist

NK Nails, Salisbury, MD

2016 - 2020

- *Managed front-desk operations, including scheduling appointments, greeting customers, and handling transactions.*
- *Delivered excellent customer service, ensuring a welcoming and professional environment for clients.*
- *Streamlined daily operations by maintaining accurate records and coordinating with the salon team.*