

# Nicholas Hamilton

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## Education

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### Berea College

Bachelor of Arts | **GPA:** 3.78/4.0

**Berea, KY**

*Expected Graduation: May 2026*

- **Major:** Computer and Information Systems
- **Relevant Coursework:** Software Design and Implementation, Data Structures, Database Systems, Discrete Mathematics.

### Eastern Gateway Community College

Associate of Arts | **GPA:** 4.0/4.0 Summa cum laude

**Steubenville, OH**

*Graduated May 2023*

- **Major:** Associate of Arts
- **Relevant Coursework:** Microeconomics, Business Communications, Statistics, Calculus and Analytic Geometry.

## Leadership Experience

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### Berea College Computer Science Department

*Computer Science Teacher's Assistant*

**Berea, KY**

*January 2024-Current*

- Conducted individual and group tutoring sessions to bolster students' understanding of fundamental programming concepts and software development practices, leading to improved problem-solving skills and project outcomes.
- Accessed and graded coding assignments, delivering detailed constructive feedback to foster students' proficiency in beginner Python concepts and enhance their code quality.

### Student Government Association (SGA)

*Liaison for the Non-Traditional Student Association (NTSA)*

**Berea, KY**

*September 2023-Current*

- Served as the primary link between the SGA and NTSA, advocating for the unique needs of non-traditional students and facilitating collaborative events and initiatives to enhance their campus experience.
- Functioned as Vice-Chairperson of the Campus Improvement Committee, developing ideas and implementing innovative solutions to enhance student life, addressing key issues, and contributing to tangible improvements on campus.
- Coordinated with various student organizations to host multi-cultural and intergenerational events, fostering a more connected and inclusive campus culture.
- Optimized financial management by creating an Excel analytics tool, effectively administering a \$32,000 budget, and increasing funding process efficiency.

## Projects

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### Database Development for Unhoused Persons Initiative

**Berea, KY**

*February 2024*

- Developed a comprehensive database system with PostgreSQL for a local nonprofit, aiming to support unhoused individuals by managing sensitive data, service provisions (food, clothing), and assistance in obtaining state IDs.
- Engaged in extensive data modeling to ensure adherence to organizational business rules and data integrity, facilitating effective data management and support for the unhoused community.

### War Card Game

**Berea, KY**

*February 2024*

- Developed a console-based simulation of the traditional War card game in C++, where a user plays against the computer, emphasizing object-oriented programming principles and effective memory management.
- Employed stacks, queues, and vectors to manage card decks and gameplay dynamics, demonstrating a strong understanding of choosing appropriate data structures for specific tasks.

### Rank Based Voting System

**Berea, KY**

*December 2023*

▪ Designed and implemented a rank-based voting system using object-oriented Python, complete with SQLite3 integration. Enhanced user experience with a custom Tkinter GUI and incorporated Matplotlib for dynamic data visualization. Rigorously validated functionality through comprehensive unit testing, emphasizing reliability.

## Skills

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C++, Python, PostgreSQL, C#, Git, Matplotlib, Statistical analysis using Excel.