Thomas Burke

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EDUCATION

West Chester University West Chester, PA

Bachelor of Science in Computer Science (August 2024-December 2025) **GPA:** 4.0

Relevant Coursework: Data Communications and Networking, Artificial Intelligence, User Interfaces, Software Engineering

Awards & Honors: Dean List Fall 2024, Accelerated Bachelor of Science/Master of Science Program

Bucks County Community College Newtown, PA

Associate of Science in Computer Science (August 2022-May 2024) **GPA:** 4.0

Relevant Coursework: Database Design and Application Development, Programming for Mobile Devices, Comparative Operating Systems, Data Structures & Algorithms

Awards & Honors: President's Honor List (Fall 2023, Spring 2024), Honors@Bucks Graduate (May 2024), Phi Theta Kappa Honor Society

TECHNICAL PROJECTS

LinkedList Music Playlist   Fall 2025

- Engineered a backend Playlist API that functions as a doubly LinkedList in Java to create an interactive music player with links to the next song, including functions to manipulate the list.
- Utilized external libraries to decode, play, and manipulate MP3 files within the Java project to allow the user to seamlessly interact with the JFRAME frontend interface.

React Tic-Tac-Toe Game   Fall 2025

- Developed an interactive Tic-Tac-Toe game using React.js and JSX to implement state management, event handling, and DOM manipulation.
- Project displayed use of multiple frontend development tools, including JavaScript logic, JavaScript XML (JSX), React, and styling for various displays using CSS.

Single Player Blackjack Game   Spring 2024

- Engineered and developed both the frontend and backend of an interactive single-player Blackjack game, leveraging Java for backend development and HTML, CSS, and JS in the user-friendly frontend.
- Web app is hosted on AWS, utilizing Route 53 for domain name resolution, which directs traffic to an S3 bucket that serves the project's static content. The S3 bucket seamlessly integrates with an AWS Lambda function written in Java, handling HTTP requests to dynamically process and return data to the site through the request.

SKILLS

- **Programming Languages:** Java, JavaScript, HTML/CSS, Python
- **Tools and Technologies:** VS Code, GitHub, AWS, Eclipse, React