

# Thomas E. Burke

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## EDUCATION

**West Chester University** West Chester, PA

**Bachelor of Science in Computer Science** (August 2024-December 2025) **GPA: 3.97**

Relevant Coursework: Data Communications and Networking, Artificial Intelligence, User Interfaces, Android App Development, Computer Security

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

**Deep Learning Model for Pneumonia Detection from Chest X-Rays**

Summer 2025

- Constructed a convolutional neural network in Python using TensorFlow/Keras to classify chest X-ray images as normal or pneumonia with approximately 95% accuracy on testing data.
- Preprocessed medical imaging data to implement the training model, visualize model performance, evaluate model using testing data, and save the model.

**React Tic-Tac-Toe Game**

Fall 2025

- Developed an interactive Tic-Tac-Toe game using React.js and JSX with state management, event handling, and DOM manipulation.
- Demonstrated use of frontend development tools, including proficiency in JavaScript, JavaScript XML (JSX), React, and responsive CSS styling.

**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.

## EXPERIENCE

**Wegmans Food Markets** Princeton, NJ

#### Kitchen Team Member (August 2023 - Present)

- Maintain efficient kitchen operations by monitoring inventory levels, restocking supplies, and ensuring timely replenishment to prevent shortages.
- Collaborate with team members in a fast-paced environment, balancing multiple tasks while upholding quality and efficiency.
- Demonstrate adaptability by quickly adjusting to changing demands, contributing to a smooth and productive workflow.

#### **Chick-fil-A** Langhorne, PA

#### Assistant Team Manager (February 2020 – November 2022)

- Coordinated training planning and schedules for the store, while assisting new hires throughout the training process.
- Developed and implemented strategies for improving customer service quality and efficiency as well as coworker experience.
- Assisted in handling IT and customer issues on the floor, while helping assist in running the store operations.

### **SKILLS**

- **Software:** Canva, Microsoft Excel, Word, PowerPoint
- **Programming Languages:** Java, JavaScript, HTML/CSS, Python, Kotlin, Unix/Linux
- **Tools and Technologies:** VS Code, Git, AWS, Eclipse, React, Android Studio