# T H O M A S   B A I L E Y

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## EDUCATION

**Towson University | Department of Computer and Information Sciences**            **Towson, MD**

*Bachelor of Science in Computer Science | Software Engineering*                              *May, 2025*

- **Relevant Coursework:** Software Engineering, Web Based Programming, Data Structures and Algorithms, Software Quality Assurance & Testing, Object-Oriented Design & Programming, Database Management Systems
- **Extracurricular:** Software Engineering Club | Towson University Honors Program

## WORK EXPERIENCE

**29th Street Deli & Grill**                                                                                         **Avalon, NJ**

*Assistant Cook/Line Cook*                                                        *Summers May, 2021 - Present*

- Collaborated with staff to ensure timely and accurate preparation in a high-pressure environment.
- Maintained cleanliness and organization to adhere to health and safety standards.
- Assisted in the training of new staff, providing guidance on kitchen procedures and preparation.

**Avalon Supermarket**                                                                                          **Avalon, NJ**

*Stocker*                                                                        *Summers June, 2018 - August, 2020*

- Organized and replenished stock to ensure a better shopping experience for customers.
- Worked closely with team members to maintain inventory and support smooth store operations.

## PERSONAL PROJECTS

**Interactive Web-Based Card Game: Uno (HTML, CSS, JavaScript, React, WebSocket)**

- Implemented game logic and user interfaces, ensuring a responsive and engaging user experience.
- Integrated WebSocket for real-time communication between players
- Designed intuitive game mechanics and rules, with an easy-to-use lobby for players to join games.

**AI-Powered Personal Finance Management (React, Node.js, Express, MongoDB, Python)**

- Automated categorization of expenses using natural language processing.
- Predictive analytics to forecast future spending and savings goals.
- User dashboard with visualizations of spending patterns and tips for improvement.

**Collaborative Task Management Application (React, Node.js, Express, SQL, REST APIs)**

- Developed a full-stack web application enabling users to create, manage, and assign tasks within teams, utilizing SQL for efficient data storage and retrieval.
- Implemented RESTful APIs for seamless communication between the front end and back end, ensuring smooth data exchange and user interactions.
- Designed a responsive interface that provides real-time updates on task progress and status changes, enhancing team collaboration.

## SKILLS

**Languages:** Java, Python, HTML, CSS, JavaScript, C/C++
**Technologies:** React, MySQL, MongoDB, Express.js, Node.js, Git, JUnit, RESTful APIs
**Personal:** Software Testing,  Problem-solving, Team Collaboration, Adaptability, Communication, Time management