

Mathew Mesfin

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Education

Bachelor of Science in Computer Science **Towson University** **08/2020 – 05/2024**

- **Relevant Course Work:** Linear data structures | Trees | Heaps; Stacks | Queues | Graphs | Searching and sorting algorithms | Paradigms in the design of algorithms | OOP | Recursion | Polymorphism | Memory System organization | Principles of assembly language

Skills

- Java | Python | PHP | HTML | CSS | JavaScript | React | Mongo | Next.js | Express | Node.js | Git | PostgreSQL | MySQL | AWS | Backend | Frontend | Full-Stack | Excel | English | American-Sign-Language |

Experience

Student Researcher **Towson University** **08/2023 – Current**

- Researched, analyzed, and organized Baltimore crime data to highlight and bring awareness to criminal activity problems.
- Used Streamlit and Pandas with Python to clean the data and visualize the cleaned data.

CIS Tech Hub Lab Admin **Towson University** **08/2023 – Current**

- Provided technical assistance to students and faculty with technical questions, troubleshooting problems, network service access requests, and software installation.
- Oversee laboratory cleanliness and organization while maintaining an inventory of lab supplies and equipment.

Software Engineer Intern **CourseStorm** **05/2023 – 08/2023**

- Worked in an agile team to update and streamline the waiting list entry into the registration application process using PHP, HTML, JavaScript, SCSS, and MySQL.
- Gathered information through user interviews to determine how to update the application to meet their needs.
- Made project plan documents, integrations, pulls, pushes, merges, and tests.

Projects

Fitness App **09/2023 – 12/2023**

- Worked in a team using the Next.js 14 framework to design and develop a fitness website that provides workouts and tracks the user's progress.
 - Used PostgreSQL database from Neon.tech and REST endpoints service from Nhost.io.
 - Used Google Cloud platform for authentication.

Travel Trove AI **09/2023 – 12/2023**

- Worked in a team using the Next.js 14 framework to design and develop a flight search booking app that integrates an AI chat feature.
 - Used PostgreSQL database from Neon.tech and REST endpoints service from Nhost.io.
 - Used Credentials with Next AUTH for authentication.
 - Used Amadeus for developers' API for flight offers search.

Virtual Shopping Center **04/2022 – 05/2022**

- Used Java to design and develop a back-end application for an online store.
 - Customers are required to log in or create an account before entering the online store.
 - Customers will be able to: edit their cart, edit saved items, checkout with a linked credit card or add a new credit card, view their history of orders, become a premium member, update their account information, and more.