

Mathew Mesfin

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Skills

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

Experience

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|---|---------------------------------|--------------------------|
| Student Researcher | <u>Towson University</u> | 08/2023 – Current |
| <ul style="list-style-type: none">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 | <u>Towson University</u> | 08/2023 – Current |
| <ul style="list-style-type: none">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. | | |
| EESA Treasurer | <u>Towson University</u> | 08/2023 – Current |
| <ul style="list-style-type: none">Oversee and handle EESA financial activity including budgeting, planning, banking, and transactions.Worked with our financial team along with other leaders, groups, and organizations to develop budgets and ensure resources are allocated properly. | | |
| Software Engineer Intern | <u>CourseStorm</u> | 05/2023 – 08/2023 |
| <ul style="list-style-type: none">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

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| Software Engineer | <u>Fitness App</u> | 09/2023 – 12/2023 |
| <ul style="list-style-type: none">Worked in a team using the Next.js 14 framework to design and develop a personal fitness website that builds and plays workouts and tracks the user's progress.<ul style="list-style-type: none">Used PostgreSQL database from Neon.tech and REST endpoints service from Nhost.io.Used Google Cloud platform for authentication. | | |
| Software Engineer | <u>Travel Trove AI</u> | 09/2023 – 12/2023 |
| <ul style="list-style-type: none">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.<ul style="list-style-type: none">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. | | |
| Java Developer | <u>Virtual Shopping Center</u> | 04/2022 – 05/2022 |
| <ul style="list-style-type: none">Used Java to design and develop a back-end application for an online store.<ul style="list-style-type: none">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. | | |

Education

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| Bachelor of Science in Computer Science | <u>Towson University</u> | 08/2020 – 05/2024 |
| <ul style="list-style-type: none">Relevant Course Work: Linear data structures Trees Heaps Stacks Queues Graphs Searching and sorting algorithms Paradigms in the design of algorithms Recursion Polymorphism Memory System organization Principles of assembly language Schema ERD Agile Methodology | | |