

Mmesoma Onwusika

(404) 539-1489 | mmeso-onwusika@outlook.com | [linkedin.com/in/mmesoma-onwusika](https://www.linkedin.com/in/mmesoma-onwusika) | github.com/Somuebi | somuebi.github.io

EDUCATION

Worcester Polytechnic Institute

Worcester, Massachusetts

Bachelor of Science in Computer Science; Minors in Management Information Systems and Entrepreneurship

Exp. May 2028

- **Relevant Coursework:** Algorithms, Software Engineering, Operating Systems, Database Systems, User Experience and Design
- **Member:** Women in Computer Science, International Student Council

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, SQL, C, C++, R, Racket, MATLAB

Web Development: React, Svelte, Next.js, HTML, CSS, Node.js, Express, REST APIs, DOM Manipulation, Responsive Design, Accessibility (a11y)

Database & Backend: PostgreSQL, Prisma, SQL, Node.js, Express

UI/UX & Product: Figma, User-Centered Design, Prototyping, Wireframing, Product Requirements, User Research

Developer Tools: Git, GitHub, VS Code, Command Line, Vercel, Render, AWS, Azure DevOps, Github Copilot

WORK EXPERIENCE

Microsoft

Redmond, Washington

Explore Intern (Software Engineering & Product Management)

May - Aug 2026

- Conducted stakeholder interviews, research, and competitive analysis to understand opportunities for increasing rewards visibility and usage, informing the direction of a new persistent rewards experience.
- Designed and refined the user experience by evaluating placement options, developing wireframes/prototypes, and accounting for dynamic content sizing to maintain a consistent interface.
- Authored product and development specifications documenting the feature's rationale, requirements, technical approach, implementation considerations, and planned experimentation.
- Analyzed an existing customer-facing codebase and tooltip architecture to understand component dependencies and determine which functionality to reuse, modify, remove, or rebuild for the new experience.
- Implemented, tested, and debugged front-end updates aligned with design specifications, directly contributing to a forecasted >1.73% lift in rewards engagement.
- Presented the project, technical/product decisions, and internship takeaways to fellow interns, stakeholders, and Microsoft employees.

PROJECTS

Enterprise Web Application for Hanover Insurance

March - May 2026

Tech Stack: React, TypeScript, PostgreSQL, Express.js, Node.js, Prisma ORM, Tailwind CSS, AWS, Render

- Led the technical implementation of a 10-person Agile team in developing a cloud-hosted web application for Hanover Insurance.
- Collaborated with stakeholders to gather requirements through brainstorming sessions, user stories, and use case diagrams.
- Built a full-stack PERN application featuring authentication, role-based access control, a content management system, analytics, and customizable dashboards.
- Coordinated communication between frontend and backend teams to ensure successful integration and on-time delivery.

Rate My Dorm - GoatHacks

Jan 2026

Tech Stack: FastAPI, MongoDB Atlas, Python, HTML/CSS, JavaScript, Figma, REST APIs

- Collaborated with a team of five to develop a web application helping WPI students compare on-campus housing based on amenities, location, room size, and student reviews.
- Designed interactive UI prototypes in Figma and integrated a FastAPI backend with MongoDB Atlas using RESTful APIs.
- Awarded Best Community Hack for addressing a common student need through an accessible, community-focused solution.

Leaks in the Pipe - Interactive Scrollytelling on Black Women in STEM

July 2025

Tech Stack: HTML, CSS, JavaScript, Svelte, Git/GitHub, Intersection API

- Built a responsive scrollytelling web app visualizing the decline of Black women in STEM using real-world data.
- Implemented scroll-triggered animations using Intersection Observer and focused on accessibility and narrative clarity.

LEADERSHIP

National Society of Black Engineers

Worcester, Massachusetts

Pre-Collegiate Initiative Chair

May 2026 - Present

- Established partnerships with local organizations to develop and expand K-12 STEM mentorship programming.
- Organized STEM workshops and panels for K-12, creating leadership and mentorship opportunities for chapter members.

African Student Association

Worcester, Massachusetts

Treasurer

May 2025 - Present

- Prepared and submitted financial requests to the Student Government.
- Managed budget planning to align organizational spending with available funds and Student Government requirements.