Simon Yoseph

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EDUCATION

Towson University **May 2024**

Bachelor of Science in Computer Science

Software Engineering | Data Structures and Algorithms | Database Management | Operating Systems | Web Development | Data Networks and Communications | Linear Algebra | Calculus 1 & 2 | Probability & Statistics | Discrete Math

SKILLS

Python | R | JavaScript | SQL | C++ | Typescript | HTML/ CSS | Java | React Native | Node.js | Git | Jira | Power BI | Microsoft Suite | AutoCAD | Figma | Prototype | Adobe Suite

EXPERIENCE

National Science Foundation, Baltimore Data Science Division **September 2023 – May 2024**

Data Science Analyst *Baltimore, MD*

- Built Python-based pattern detection algorithms that reduced data processing time by 30% and enabled real-time anomaly detection.
- Developed interactive dashboards for analyzing Baltimore's 311 and 911 call data, improving data accessibility and efficiency by 25%.
- Engineered a Streamlit-based visualization tool, enabling real-time analytics and data-driven decision-making.
- Collaborated with cross-functional teams to refine UI/UX elements in data-driven applications, ensuring clarity and usability by an increase of 75%.

Towson University **August 2021 – May 2024**

IT Support & Building Manager *Baltimore, MD*

- Improved employee service request resolution time by 35% by optimizing internal workflows and response tracking.
- Achieved a 95% fulfillment rate for resource and data requests by managing multiple projects and optimizing scheduling systems.
- Strengthened policy adherence by enhancing compliance tracking processes and improving documentation for procedures.

Westat **June 2023 – February 2024**

Technical Data Analyst *Rockville, MD*

- Improved data accuracy and reporting speed by managing data entry, validation, and reporting processes for program evaluations.
- Refined data management systems by collaborating with internal stakeholders, enhancing workflows for efficient program monitoring utilizing Microsoft Suite frequently.

PROJECTS & RESEARCH

Travel Trove AI Website - ***https://github.com/SimonYoseph/travel-trove-ai***

- Architected and developed a responsive web application using JavaScript, HTML/CSS, and Next.js while implementing RESTful
- API integrations for flight search, language translation, and currency conversion.
- Optimized front-end performance resulting in 25% faster booking completion utilizing modern web development practices to create an intuitive user interface.

Fitness Tracker Web App - ***my-fit-webapp.vercel.app***

- Built a full-stack fitness tracking application using React, Tailwind CSS, and Node.js resulting in API performance increase by 30% through front-end optimization techniques.
- Implemented gamification features using React components, increasing user engagement by 45% resulting in responsive UI components for seamless mobile and desktop experience.

Shinpad Prototype

- Accomplished a 20% improvement in impact resistance and durability as measured by test results, by designing a shinpad prototype using AutoCAD for 3D modeling and incorporating non-Newtonian fluid for enhanced protection.
- Achieved a 15% increase in user comfort as measured by user feedback, by conducting tests and refining the design based on documented results.

University Employee Salaries Research Part I & II

- Improved data accuracy by designing robust solutions to reconcile salary data, making it easier for users to engage with the content and trust the information.
- Utilized design thinking principles to create a smooth user experience that provided actionable insights in an accessible and visually appealing way.

LEADERSHIP

Secretary and Historian of Towson University Ethiopian - Eritrean Student Association

PUBLICATIONS

National Science Foundation
Division of Information & Intelligent Systems Research