

# 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

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## SKILLS

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

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## EXPERIENCE

### National Science Foundation, Baltimore Data Science Division

January 2024 – May 2024

*Data Science Analyst Intern*

*Towson, 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*

*Towson, MD*

- Managed IT operations and provided technical support for 20,000+ users, achieving a 98% resolution rate.
- Developed automation scripts to streamline IT service requests, reducing response times by 50%.
- Collaborated with leadership and cross-functional teams to provide actionable insights to reduce average incident handling time from 4 hours to 45 minutes.

### Westat

June 2023 – February 2024

*Technical Data Analyst*

*Rockville, MD*

- Provided technical support for data management systems, ensuring high accuracy in data entry and validation.
  - Automated reporting processes, improving efficiency by 40% and enhancing data-driven decision-making.
  - Assisted users with troubleshooting database issues and resolving system errors 95%.
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## 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](https://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.

### Personal Portfolio - <https://simon-yoseph-portfolio.vercel.app/>

- Developed and deployed a personal portfolio website using React and Vercel, showcasing projects, skills, and experience in full-stack development.
- Implemented UI enhancements and resolved alignment issues across different tabs, ensuring a polished and user-friendly experience.

### University Employee Salaries Research Part I & II

- Analyzed salary trends across Ohio's public universities using classification algorithms (Logistic Regression, Naïve Bayes, Decision Tree).
  - Explored disparities in earnings by school, department, and job position, identifying key patterns and challenges.
  - Continued and conducted comprehensive analysis of Ohio's public university employee salary data (2011– present) using K-means, Mean Shift, and DBSCAN clustering algorithms.
  - Applied the Elbow Method to determine optimal clusters and evaluated clustering quality using Silhouette Coefficients (K-means, Mean Shift, DBSCAN).
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## LEADERSHIP

Secretary and Historian of Towson University Ethiopian -  
Eritrean Student Association

## PUBLICATIONS

National Science Foundation Division of Information &  
Intelligent Systems Research