

SIMON YOSEPH

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EDUCATION

Towson University

May 2024

Bachelor of Science in Computer Science

SKILLS

Programming Languages: SQL, Java, C++, Python, R, JavaScript, HTML, CSS

Tools/Frameworks: SQL Server, Power BI, Tableau, React, Node.js, GitHub, JIRA, Visual Studio Code, Eclipse

Soft Skills: Analytical Thinking, Communication, Problem Solving, Team Collaboration

EXPERIENCE

National Science Foundation, Baltimore Data Science Corps

January 2024 – May 2024

Data Science Intern

Towson, MD

- Programmed **Python-based pattern detection algorithms**, reducing incident analysis time by 70% and enabling real-time identification of anomalies across **900,000+ system events**, saving 100+ analyst hours monthly, resulting in a **data visualized mapping** tool.
- Analyzed** system event data to develop predictive models for infrastructure prioritization, improving triage accuracy by 40% and allowing analysts to focus on high-risk events, **saving 25 hours weekly in manual prioritization efforts**.
- Developed **data models and visualization tools** to analyze **IT services**, improving real-time monitoring efficiency by **85%**.

Towson University

August 2021 – May 2024

IT Support/ Building Manager

Towson, MD

- Achieved a **98% resolution rate** by implementing standardized incident response procedures, protecting **20,000+ users** across a multi-platform environment, and **preventing 15+ potential breaches annually, avoiding \$150,000 in potential damages**.
- Collaborated with leadership and cross-functional teams to provide actionable insights to reduce **average incident handling time from 4 hours to 45 minutes**.
- Decreased **security incidents by 45%** through a new security training program **saving 120 hours per month in manual remediation tasks**.

Westat

June 2023 – February 2024

Technical Data Entry Clerk

Rockville, MD

- Lead **data modernization efforts and process optimizations** and improved **data quality by 40%** by establishing automated validation processes and ensuring consistent data accuracy across multiple projects, **reducing manual corrections by 15 hours weekly**.
- Organized **and maintained large datasets** in compliance with regulatory standards, ensuring data integrity and avoiding potential compliance issues that could lead to **\$25,000 in fines annually**.
- Developed **performance monitoring reports** using Power BI and SQL queries, enabling better tracking of system metrics and **improving data-driven decision-making processes by 35%**.

PROJECTS

Travel Trove AI

- Programmed a **responsive web application** integrating flight search functionality, multilingual translation, and currency conversion, **reducing travel planning time by 30% for users**.
- Organized **web app features** for seamless flight search, language translation, and currency conversion using JavaScript, HTML/CSS, and Next.js, enabling users to **complete bookings 25% faster**.
- Integrated the Amadeus Flight Search API for real-time flight bookings, OpenAI API for multilingual translations, and a custom currency conversion tool, **saving users up to \$200 on international bookings through efficient planning**.

Fitness App

- Developed a **fitness tracking application** using React, Tailwind CSS, and Node.js, offering personalized workout and nutrition plans that **saved users 15 hours per month on manual tracking**.
- Enhanced **user engagement by 45%** by incorporating gamification features such as streak tracking and performance metrics, driving higher retention rates.
- Optimized **app API calls by 30%**, improving load speeds and creating a smoother user experience, which resulted in a **20% increase in user satisfaction**.