Daniel Anoruo

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https://github.com/danoruo1/ https://anoruoportfolio.vercel.app/

Education

Towson University Towson, MD
Bachelor of Science in Computer Science, Cyber Operations Track *August. 2022 – May 2026*
GPA: 3.52
Relevant Coursework: Software Engineering, Operating Systems, Data Structures and Algorithms, Data and Communications Networking, Discrete Mathematics, Cybersecurity, Statistics, Linear Algebra

Technical Skills

Languages: Java, Python, C/C++, MYSQL, JavaScript, HTML/CSS, Lua
Frameworks: React, Next.js, Material-UI
AI/ML Tools: TensorFlow, PyTorch, OpenAI, Scikit-Learn
Personal Skills: Leadership, Communication, Highly Motivated, Teamwork, Problem Solving

Experience

Undergraduate Student Researcher August 2024 – Present
National Science Foundation *Towson, MD*

- Analyzing trends related to crime in Baltimore City using Python libraries to visualize open-sourced data.
- Developing a full stack web application showcasing the research using React frameworks, Node.js, and the Vercel cloud platform.
- Conducted data collection from various sources, ensuring the integrity and accuracy of the data used in analysis.

Software Engineer Fellow July 2024 – September 2024
HeadStarter AI *Remote*

- Developed Full stack projects utilizing Node.js, GitHub, React Frameworks, and various backend APIs
- Worked in a group of 4 to discuss project ideas for each week during the program
- Participated in weekly coding challenges to help prepare for coding interviews

Research Intern May 2024 – June 2024
Purdue University *West Lafayette, Indiana*

- Utilized Linux terminal for file navigation and writing/executing shell programs
- Writing/Using Python code to run computer simulations
- Collaborated with researchers to analyze simulation results and prepare reports.

Projects

Image Predictor Web Application | *Node.js, Next.js, Python, FastAPI, PyTorch* February 2025

- Created a neural network using PyTorch to predict images
- Trained the model on a large dataset to enhance prediction accuracy
- Deployed the front-end built from Next.js on Vercel, and a server for our backend using Railway to execute the neural network written in Python code

Encryption/Decryption Web Application | *Firebase, Node.js, Next.js, Python, PyCryptodome* January 2025

- Developed Cryptify, a web application where users can post encrypted messages for others to practice decrypting
- Built encryption and decryption features with a user-friendly interface leveraging React and Node.js
- Allowing users to improve their decryption skills while ensuring robust security standards

Cybersecurity Club Database Manager | *React, MYSQL, Javascript* November 2024

- Built a full-stack web app using React with hooks for state management and real-time query execution.
- Created a dynamic UI with Material-UI, featuring a sidebar for table selection and a query editor for SQL commands.
- Integrated API calls to execute SQL queries and display results in an interactive table with data and structure insights.

Coursesight | *Next.js, Node.js, MongoDB* November 2024

- Developed a full-stack web application that allows users to provide personalized testimonials about their courses, winning 2nd place at the Towson Hackathon for its innovative approach to course reviews and student feedback.
- Implemented a rating and review system to enhance course insights for prospective students.
- Built the frontend using React components and integrated MongoDB for user authentication and data storage.

Awards and Honors

Dean's List December 2022 – May 2024
Purdue Pathway Scholar June 2024
CyberCorps Scholarship Recipient October 2024

Hackathons

StarTUp TU Maker Fest 2nd Place Winner November 2024
Hivestorm Hackathon CTF October 2024
George Mason Patriot CTF September 2024

Leadership and Extracurriculars

Church Media Department February 2021 – Present
National Society of Black Engineers Towson Chapter **(Executive Board)** March 2024 – Present
Software Engineering Club May 2024 – Present
Cybersecurity Club September 2024 – Present
Computer Science Mentor NSBE July 2024 – August 2024