

Daniel Anoruo

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EDUCATION

Towson University

Bachelor of Science in Computer Science, Cyber Operations Track

Towson, MD

Aug. 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

National Science Foundation

August 2024 – Present

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

HeadStarter AI

Jul. 2024 – September 2024

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

Purdue University

May 2024 – June 2024

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

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.

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.

Music Suggestor | *Next.js, Node.js, Firebase, OpenAI API*

December 2024

- Developed a full-stack web application that utilizes the openAI API to generate songs for users.
- Implements a freemium subscription-based model, allowing users to access basic features for free while offering premium tiers with enhanced functionalities.

- Utilized React Components to work on the front end and utilizing the firebase database to store login information.

Encryption/Decryption Web Application
| *Firestore, 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

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

AWARDS/HONORS

Deans List (2022-2024)

Purdue Pathway Scholar (2024)

Cybercorps Scholarship Recipient (2024)

HACKATHONS

StarTUup TU Maker Fest 2nd Place Winner

George Mason Patriot CTF (Ranked 378/1360)

Hivestorm Hackathon CTF (Ranked 122nd)

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
Computer Science Mentor NSBE	July 2024 – August 2024
Cybersecurity Club	September 2024 – Present