

MATTHEW NADAR

(609) 516-0510 ◊ matthewn@udel.edu ◊ [linkedin.com/in/matthew-nadar/](https://www.linkedin.com/in/matthew-nadar/) ◊ mattnadar.github.io

EDUCATION

Honors Bachelor of Science, University of Delaware Honors College May 2026
Major in Computer Science with a concentration in Data Science, Minor in Math
GPA: 3.913 | Dean's List: All Semesters
Relevant Coursework: Software Engineering, Data Structures, Advanced Algorithms Analysis, Human Computer Interaction

EXPERIENCE

Software Engineering Intern May 2024 - July 2024
Center for Applied Demography and Survey Research *Newark, DE*

- Developed and implemented data pipelines in Python for a computer vision system
- Enhanced and optimized the user interface of the system, improving response time and boosting overall user satisfaction based on survey feedback
- Automated data processing workflows, reducing manual intervention and streamlining the collection and analysis of traffic data across multiple locations

Undergraduate Research Assistant Feb 2024 - Present
University of Delaware *Newark, DE*

- Collaborating with a professor to enhance a GPT-powered autograding system, improving grading accuracy and feedback personalization for introductory computer science courses
- Led data analysis using on student feedback from non-coding assignment to identify trends and areas for improvement in the autograding and feedback. Used Python libraries such as Pandas, Matplotlib, and Seaborn
- Used the SiEBERT model for sentiment analysis on responses to get student perceptions of generative AI feedback

Undergraduate Teaching Assistant Aug 2023 - Present
University of Delaware *Newark, DE*

- Teaching assistant for: Data Structures Algorithms, General Computer Science for Engineers, and Systems Programming
- Instructs and supports 15-20 students in lab sections, strengthening their understanding of core concepts

Discord Bot Maintainer and Server Manager May 2023 - Present
University of Delaware *Newark, DE*

- Collaborates with professors and other undergraduate students to develop a Discord bot in TypeScript and NodeJS, providing effective and easy communication for computer science classes for 3000+ students and 30+ professors
- Adds and enhances functionality, including the ability to create private questions for professors/TAs to answer, user polls, and create reminders

PROJECTS

UV Index Tracker Mobile App Aug 2024 - Dec 2024

- Developed an Android app built in Kotlin that provides real-time UV index, sunscreen recommendations, and skin health tips. Features a calendar for tracking sunscreen use

Machine Learning Spam Email Detector Jul 2024 - Aug 2024

- Developed a machine learning model for spam email detection using Python and scikit-learn, integrated with a Flask backend for handling predictions. Built a web frontend with HTML, CSS, and JavaScript

Artificial Intelligence Career Finder Feb 2024 - May 2024

- Developed a dynamic web application using React, NodeJS, and TypeScript to assist users in identifying suitable career paths. Integrated OpenAI API for personalized career recommendations and real-time feedback during quiz completion

TECHNICAL SKILLS

Languages Python, Javascript, Java, C, C++, HTML, CSS, TypeScript, Assembly, R

Frameworks React, Flask, Django, Bootstrap

Libraries Numpy, Matplotlib, Seaborn, Scikit-Learn, Pandas

Tools and Misc. Git, Github, Bash, DiscordJS, NodeJS, MongoDB, Jenkins