

Nicholas Lago

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EDUCATION

University of Delaware

Expected May 2025

Bachelor of Science in Computer Science, Minor in Mathematics

Newark, DE

Relevant Courses: Data Structures, Algorithms, Software Engineering, Machine Learning

- 3.74 GPA
- 3.84 Major GPA
- VIP Drone Research
- Dean's List 2021 - 2024

EXPERIENCE

Web Development Intern

February 2024 - June 2024

Leap Brands

Whippany, NJ

- Developed web applications and implemented responsive features using **TypeScript**.
- Improved website performance and SEO by transitioning to server-side rendering with **Next.js**.
- Collaborated with a development team to refine the website UX using **Tailwind**.

Computer Science Lab Assistant

January 2023 - January 2024

University of Delaware

Newark, DE

- Managed and led lab sections for students learning systems programming and **C**.
- Provided extra help outside of the classroom via online and in-person meetings.

Computer Science Teaching Assistant

August 2022 - January 2023

University of Delaware

Newark, DE

- Taught students to master **Python** concepts through 80 person lectures.
- Graded and assisted projects and assignments for a cohort of 15 students on Canvas.

PROJECTS

Colorize

Chrome Extension

- Created an accessibility tool featured on the Chrome Web Store with 180+ active users.
- Allows colorblind users to distinguish colors by correcting for their specific type of color vision deficiency.
- Utilizes a daltonization algorithm to apply a filter on images in the browser with **JavaScript**.
- Implemented Chrome APIs to communicate from popup script to background script and store settings.

Goblin

Application Security Tool

- Built an application to perform security testing on personal websites to detect common vulnerabilities.
- Performs automated scanning for authentication issues, SQL injections, and XSS by proxy testing with **ZAP**.
- Uses **Python** and **Flask** to analyze and generate an educational report for users to avoid risks in code.
- Implemented a functional backend with **JavaScript** and frontend interface with **HTML** and **CSS**.

Alfred AI

Artificial Intelligence Chatbot

- Developed a voice-activated Chatbot enabling users to engage with an artificial intelligence interface through voice commands and responses, without manual input.
- Combines **WebSpeech API** and **OpenAI API**, for a speech recognition system run on a **Node** server.

SKILLS

Languages: Python, Java, C, C++, JavaScript, TypeScript, R

Tools: React, Node.js, Next.js, Git, HTML, CSS, Tailwind, VS Code, MediaPipe, Photoshop, Illustrator, Figma