

# Matthew Gwin

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<https://github.com/mattgwin29>

## Education:

### University of Delaware

Expected May 2024

Major: Bachelor of Science in Computer Science

Major GPA: 3.412

## Relevant coursework:

Data Structures, Software Engineering, Machine Organization and Assembly Language, Algorithms, Computer Networks, Computer Architecture, Operating Systems, Database Systems (Oracle), Automata Theory, Parallel Programming, Network Security, Cybersecurity, Compiler Design, Web Application Security, Advanced Web Technologies, Cloud Computing and Security, Systems Hardening, Secure Software Design

## Experience:

### Hologic Inc - Newark, DE

May 2022 – August 2023

*Software Engineering Intern*

- Scripted in PowerShell to compile error reports from medical machines to help debug application crashes
- Developed an internal application using C# and Windows Presentation Framework linking Jira and Perforce tools
- Maintained internal website using C# Razor to kickoff automated builds and software installations on testing computers

### Loyola Blakefield - Baltimore, MD

*IT intern*

June 2017 - August 2019

- Deployed software to students and trained students on laptop usage guidelines
- Assisted Students resolve software issues on school laptops

## Projects

### Computer Science Department Infobot

September 2023 - Present

- Constructed AI chatbot using Llama2 and PostgreSQL designed to give information about the University of Delaware Computer Science department.

### Maryland Interscholastic Cycling League Photo Tagging Software

July 2023 - Present

- Designed an app utilizing AWS Rekognition to aid the identification of mountain bikers
- Formulated a method to tag photos with relevant league information based on racers identified in the image
- Created a multithreaded algorithm to reduce photo tagging process for staff from multiple hours to just minutes

### HenHacks Hackathon at University of Delaware - Newark, DE

#### *Quants made simple ([laughableliquidity.co](http://laughableliquidity.co))*

March 2, 2024

- Built a website in 24 hours utilizing OpenAI's ChatGPT, Polygon and Financial Modeling Prep APIs to source current stock data to explain and visualize the data in a way that is educational for novice investors.

#### *Monitoring Flooding in Delaware – Awarded First Place Winner*

April 30, 2023

## Skills:

**Languages:** Python, Java, C/C++, .NET Framework/C#/Razor, Assembly Language, TypeScript, JavaScript, React, Deno, Fresh framework, CSS/HTML, SQL, PowerShell, Kotlin

**Software:** iOS, MacOS, Windows, Linux/UNIX, Oracle, Git, Perforce, Microsoft Office Suite, Atlassian, AWS Rekognition, OpenAI, Llama2

## Activities

### Association of Computing Machinery - Newark, DE

September 2021 – Present

*Treasurer*

September 2023 – Present

### University of Delaware Club Swimming - Newark, DE

September 2021 – May 2023

### University of CTF (Capture the Flag) Club - Newark, DE

September 2023 – Present