

Cieran Plancer-Murphy

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EDUCATION

Drew University – Madison, NJ

Expected May 2026

B.S. Computer Science | B.S. Cybersecurity | Minor: Creative Arts & Technology

Major GPA: 3.9 / 4.0

Stevens Institute of Technology

Summer Cybersecurity & Computer Science Program (2022)

TECHNICAL SKILLS

Languages: Python, C, C++, Java, JavaScript, PHP, SQL, HTML5, CSS3, R, x86-64 Assembly, MIPS Assembly

Development: React.js, Node.js, REST APIs, Git/GitHub, Agile/Scrum, PM2, discord.js

Cybersecurity: Vulnerability Testing, Penetration Testing, CTF (Cryptography, Reverse Engineering, Web Exploitation, Forensics), IAM Analysis

Systems & Tools: Linux (Ubuntu), Proxmox, Figma, Adobe XD, Photoshop, Illustrator, Premiere Pro

EXPERIENCE

Cybersecurity & Software Development Intern

2024 – 2025

Talon Biomarkers, Inc.

- Implemented secure UI/UX features alongside the development team, improving application accessibility for end users.
- Conducted vulnerability testing and presented design-driven remediation strategies to cross-functional stakeholders.
- Built dashboards and reports to communicate security findings clearly to non-technical team members.

Cybersecurity Research Assistant

Summer 2024

Drew University – Summer Science Institute

- Researched integration of biological immune system models into security architecture for adaptive threat response.
- Developed conceptual prototypes and presented findings to faculty and peers using visual aids.

Web Development Intern

Summer 2023

Drew University – Civic Engagement Office

- Built and maintained responsive web applications using React.js, Node.js, HTML, CSS, and JavaScript.
- Redesigned internal tools with a mobile-first approach, improving cross-browser compatibility.
- Collaborated in Agile workflows, coordinating version control through Git/GitHub and integrating REST APIs.

PROJECTS

Home Server Infrastructure

2024 – Present

- Deployed and maintain a self-hosted Ubuntu server running Jellyfin media server and multiple Discord bots.
- Built a Discord music bot using discord.js v14, yt-dlp, and ffmpeg, deployed via PM2 for process management.

- Expanded to a two-node Proxmox homelab by provisioning a second server for VM hosting and 4K media transcoding via Sunshine/Moonlight.

Portfolio Website

2024 – Present

- Designed and deployed a dark-themed developer portfolio at allhailkingcpm.xyz using GitHub Pages with a dev/main branching workflow.

Capital One Breach Analysis

Academic

- Identified IAM design flaws contributing to the 2019 breach and proposed improved monitoring and access visualization systems.

Cyber Defense Model

Academic

- Designed a conceptual zero-day defense framework modeled on biological immune system behavior, presented to faculty.

CTF & Competitive Cybersecurity

Academic

- Completed challenges across cryptography (RSA attacks, broken AES), reverse engineering (UPX-packed binaries, PE analysis), web exploitation (SQLi, command injection), and forensics (FAT32 recovery, steganography).

LEADERSHIP & AWARDS

Founder & President – U Matter (Nonprofit)

2016 – Present

- Founded and scaled a 25-member community-focused nonprofit, raising over \$30,000 for local initiatives.
- Led digital branding and outreach strategy, growing organizational visibility and donor engagement.
- Recipient of the Presidential Service Award for Excellence in community service.