

# Anthony Lopez

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## EDUCATION

### University of Maryland

College of Information Studies

*B.S., Information Science, Specialization in Cybersecurity and Data Science*

College Park, MD.

Expected Graduation: May 2025

Relevant Coursework:

- Object-Oriented Programming, Human-Centered Cybersecurity, Cloud Computing, Database Design and Modeling, News Application Development, Dynamic Web Applications

## PROFESSIONAL EXPERIENCE

### Office of Academic Computing Services, University of Maryland

College Park, MD.

*User Support Technician*

*Sep. 2023 — Current*

- Delivered technical support to faculty, staff, and students in the College of Behavioral and Social Sciences, resolving 15+ support tickets per week through Kaseya BMS.
- Diagnose and resolve hardware, software, and network issues, managing installations, configurations, and system upgrades.
- Conducted proactive maintenance checks, identifying and resolving potential hardware, software, and networking issues within computer labs and conference rooms.

### PepsiCo

Plano, TX.

*Business Analyst Intern*

*May 2024 — Aug. 2024*

- Documented and organized EDI processes, creating a quick-reference guide used by SAP business and development teams for easier access to previous documentation and process organization.
- Participated in cross-functional meetings with business and technical teams, gaining insight into SAP and EDI processes and contributing to discussions on project alignment and improvements.
- Collaborated with a team to develop a sustainability strategy aimed at reducing PepsiCo's carbon footprint by optimizing global data center efficiency and resource utilization.

## PROJECTS

### New Carrollton Data Dashboard

*Sep. 2024 — Dec. 2024*

- Developed an interactive dashboard for the City of New Carrollton, integrating data from Police, Public Works, and Code Enforcement departments and implementing data visualizations using Tableau.
- Enhanced accessibility to ensure ADA compliance and improving overall usability for city staff and residents.
- Developed documentation to support city staff in maintaining and updating the dashboard.

### End-to-End IoT System Model

*Sep. 2023 — Dec. 2023*

- Designed and simulated a network model in Cisco Packet Tracer, implementing IPv4 addressing for Home and Mobile LANs, ISP tiers, and a cloud data center.
- Conducted network testing, including MAC address table population, routing table verification, successful pings, and web service accessibility.
- Simulated IoT device connectivity to a cloud server and verified functionality using the IoT monitoring tool.

### Student Health and Wellness App Concept

*Sep. 2023 — Dec. 2023*

- Conducted user research to define design requirements, and iteratively develop prototypes.
- Designed a project website to document research findings and development processes.
- Evaluated ethical evaluations to ensure the app concept adhered to privacy and ethical standards in handling student data.

### Course Recommender

*Mar. 2023 — May 2023*

- Developed a Python-based course recommender system that filters courses by keywords and department names.
- Led a team of three as the lead programmer, implementing core functionality and integrating SQLite as the database management system to store and manage course data.
- Built and deployed a web scraping tool using Selenium to extract course information from the UMD Schedule of Classes.

## LEADERSHIP

### Society of Hispanic Professional Engineers

College Park, MD.

*Website Administrator*

*May 2023 — Current*

- Redesigned the SHPE UMD chapter website using WordPress, improving navigation and overall user experience.
- Manage and maintain website functionality by regularly updating content, and optimizing performance.
- Implemented Google Analytics to monitor website traffic, track user engagement and website performance.

## SKILLS

- **Programming & Scripting:** Python, Java (Basic), C (Basic), JavaScript, HTML, CSS, JSON
- **Frameworks & Development Tools:** Flask, React, Bootstrap, Selenium, APIs, Beautiful Soup, Pandas, NumPy
- **Database & Data Analytics:** MySQL, SQLite, Tableau, R/R Studio, Jupyter Notebook
- **Software & IT Tools:** Wireshark, Git/GitHub, Jira, Microsoft Office, Google Workspace, Adobe Creative Cloud, VSCode, Figma, Cisco Packet Tracer, AWS Lab Environment
- **Operating Systems & Virtualization:** Windows, macOS, Linux (Kali, Ubuntu), VMWare