Nyles Burton, II

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PROFESSIONAL PROFILE

Nyles Burton is a dedicated and highly motivated Computer Science student with a strong academic background. He is an adaptable team player who thrives in fast-paced environments and continuously enhances his technical skills in programming and software development. Nyles has hands-on experience through internships at the Patriots' Technology Training Center and Prince George's Office of Information and Technology, where he developed expertise in troubleshooting hardware/software issues, inventory management, and IT service operations. Additionally, he possesses proficiency in programming languages such as C++, Python, and HTML/CSS, and is actively pursuing certifications in these languages. With strong leadership interpersonal and problem-solving skills, Nyles is eager to leverage his technical knowledge and experience to contribute to innovative software and web development projects.

EDUCATION

Bachelor of Business and Technology, University of Maryland Eastern Shore
Expected Graduation Date: May 2026

Major: Computer science, scientific applications concentration
Cumulative GPA: 3.842/4.0
Dean's List Fall 2022, Fall 2023, and Fall 2024.
Member of the Richard A. Henderson Honors Society

TECHNICAL QUALIFICATIONS

***Software* –** MS outlook, MS word, MS PowerPoint, MS Excel, UNIX, Visual Studios, Windows OS, MAC OS

***Programming Languages* –** C++, Python, HTML and CSS, Visual Studio code, Assembly language

***Certifications* -** *Certiport HTML/CSS, Certiport Python*

- *Currently pursuing Certification in JavaScript, and Software development*

RELEVANT COURSES – CSDP 100, CSDP 221, CSDP 222, CSDP 250, CSDP 301, CSDP 332, CSDP 390, CSDP 399, MATH 110, MATH 112, MATH 211
**Currently Taking*

EXPERIENCE

Summer Intern (seasonal) – July 2024 – August 2024

Patriots' Technology Training Center, Capitol Height, MD

- Provided hands-on technical support by troubleshooting and resolving various hardware and software issues across multiple computer systems, ensuring functionality and efficiency for users.
- Assisted in diagnosing system failures, performing necessary updates, and configuring settings to optimize performance.
- Recorded, edited, and produced high-quality video content for the organization's social media marketing efforts, increasing digital engagement and outreach.
- Engaged with attendees, answered technical questions, and provided hands-on guidance during demonstrations to foster interest in STEM-related careers.

Summer Intern (seasonal) – July 2023 – August 2023

Prince George's Office of Information and Technology, Largo MD

- Supported county agencies by preparing, configuring, and distributing essential computer equipment, ensuring that government offices had the necessary technology to operate efficiently.
- Assisted in IT asset management by systematically cataloging, organizing, and maintaining inventory within the county's technology warehouse, improving equipment tracking and distribution processes.
- Created and responded to IT service and request tickets submitted by various county government agencies, assessing issues and coordinating appropriate actions to resolve them.
- Gained valuable exposure to public sector technology operations, reinforcing knowledge of IT service management, problem-solving methodologies, and customer support strategies.

PROJECT

UMES Hospital Patient Data Portal & Database

C++ | Data Management | User Authentication | File Handling

Developed **a mock hospital patient data portal and database system**. It was designed to store and manage patient information securely. This project enables patients to access and update their records, schedule appointments, and view medical history while ensuring healthcare providers have a streamlined data retrieval system.

Key Contributions:

- Designed and implemented **user authentication** with secure login functionality.
- Developed a **menu-driven interface** for easy navigation and data management.
- Engineered a **file-based database system** using CSV files for storing patient information.
- Implemented **search algorithms** (linear & binary) to optimize data retrieval efficiency.
- Created **appointment scheduling features** with input validation and record storage.
- Designed **patient information update functionality**, allowing modifications to medical history, appointments, and general details.

Technologies Used: C++, File I/O, Data Structures, Search Algorithms, User Authentication

This project strengthened Nyles' expertise in **data management, algorithm optimization, and software design**, enhancing his ability to build scalable, user-friendly systems.