Devin Coster

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Education

Marymount University — Arlington, VA
Bachelor of Science in Computer Science, Minor in Artificial Intelligence and Robotics — *Aug. 2023 – May 2027*

Harford Technical High School — Bel Air, MD
Machining, Manufacturing, and Welding — *Aug. 2019 – May 2023*

Experience

IT Generalist Intern — May 2025 – Aug. 2025
Allan Myers — *Fallston, MD*

- Diagnosed and resolved 50+ weekly hardware and software tickets across 6 business units, reducing downtime by 30 percent.
- Led a company-wide device upgrade project, replacing 200+ end-user systems across field offices with minimal service disruption.
- Deployed AWS jumpboxes and Office 365 admin tools to improve remote access reliability, cutting login issues by 20 percent.

Water Safety Instructor — May 2019 – Aug. 2024
Rock Spring Swim Club — *Bel Air, MD*

- Instructed 150+ students (ages 4–16) following Red Cross standards, achieving a 95 percent swim proficiency rate among beginners.
- Created personalized lesson plans, improving stroke efficiency by up to 40 percent through technique correction and progress tracking.
- Communicated progress regularly to parents/guardians and provided recommendations for continued improvement

Projects

Multi-Thread Web Crawler | *C++, libcurl, CMake, Multi-threading, Graph Algorithms* Aug. 2025 – Aug. 2025

- Designed a multi-threaded web crawler that processed 1,000+ webpages in under 30 seconds, demonstrating scalable concurrent design.
- Implemented mutex-based synchronization and thread-safe data structures, reducing data race conditions by 100 percent during stress tests.
- Integrated PageRank and shortest-path algorithms to analyze link graphs with a 95 percent accuracy rate vs. benchmark datasets.
- Optimized HTTP request throughput via connection pooling and adaptive rate limiting, boosting performance by 25 percent.

Movie Recommendation Program | *Python, Pandas, Numpy, Sci-Kit learn, JupyterNotebook*Mar. 2024 – Apr. 2024

- Developed a content-based recommendation system handling 5,000+ movie entries using TF-IDF vectorization and cosine similarity.
- Built an interactive GUI with customtkinter, improving user interaction time by 2× compared to CLI prototype.
- Achieved 92 percent accuracy on user-preference prediction via k-nearest neighbor model tuning.
- Utilized Pandas and NumPy for real-time data handling, reducing preprocessing latency by 35 percent.

Technical Skills

Front-end: HTML, CSS, JavaScript, React
Back-end: C++, Java, Python, SQL, PostgreSQL, CMake
Data Science / Machine Learning: Pandas, NumPy, scikit-learn, Jupyter Notebook, PyTorch
Game Development / Simulation: Unreal Engine, C++, Multi-threading, Graph Algorithms
Cloud / DevOps: AWS, Azure, Docker, Git/GitHub
Productivity & Collaboration: Microsoft Office, Google Workspace