Darsh Patel

Baltimore, MD | dpatel37@umbc.edu |[Personal Site](#) |[LinkedIn](#)| [Github](#)

EDUCATION

B.S in Computer Science, *Track: AI & Machine Learning.*   Expected: Dec 2026

University of Maryland - Baltimore County

Related Coursework:

Software Engineering I, Operating Systems, Data Structures, Artificial Intelligence, Data Science, Computer Architecture, Computer Organization, Statistics, Automata Theory.

Honors:

Attained President's List distinction for Spring 2025, and attained Dean's List distinction for Spring 2024, Fall 2024, and Spring 2025, demonstrating academic dedication in achieving a gpa of 4.0, and 3.75+, respectively.

EXPERIENCE

Software Engineer Intern – *bwtech@UMBC*   October 2024 – October 2025

➤ Built cloud-hosted infrastructure for internal and client-facing apps using AWS Amplify, S3, CloudFront, Digital Ocean, and Route 53, ensuring secure team access via IAM roles and policies.

➤ Developed an AI-assisted Raman spectroscopy processing platform for BISYN LLC, supporting classification, spectral binning, and automated workflows.

➤ Worked directly with upper leadership to support product deployment, feature testing, and cloud integration.

React • Tailwind • Amplify • Digital Ocean • CloudFront • Route 53 • S3 • Cloudflare • Python • Github • Confluence • Jira

Technical Team Lead – *hackUMBC*   March 2024 – October 2025

➤ Led a team of 6 to rebuild hackUMBC.tech using React, Next.js, and Tailwind, improving stability, and redesigning the UI for 600+ participants.

➤ Deployed AWS-backed registration tools (DynamoDB + S3) to handle resume storage and participant management at scale.

➤ Coordinated cross-team communication, release cycles, and version control best practices for student developers.

React • Next.js • Python • JavaScript • Tailwind • AWS • Lambda • DynamoDB • S3 • GitHub • Resend • Project Management

Undergraduate Researcher – *UMBC DAMS Research Group*   September 2024 – December 2024

➤ Composed Python scripts for detailed prompt engineering, analyzing and summarizing thousands of privacy policies to evaluate the processing capabilities of large language models within the GenAIPABench project.

➤ Built a small React-based interface connected to a Python backend to visualize policy scores and enable filtering/searching.

React • Next.js • JavaScript • Python

SKILLS

Languages: Python, JavaScript, Java, C, C++, SQL, HTML, CSS

Frameworks/Libraries: React, Next.js, Node.js, Tailwind, Supabase, OpenCV, TensorFlow, Flask

Tools / Cloud: AWS (Amplify, S3, DynamoDB, Lambda, CloudFront, Route 53), Digital Ocean, Cloudflare, Git, PostgreSQL, Jira, Confluence

Certifications: [AWS Certified Cloud Practitioner](#), [Cisco Cybersecurity Essentials](#)

PROJECTS

hackUMBC Website   August 2024 – October 2025

➤ Designed and implemented a fully responsive frontend using React, Next.js, and Tailwind.

➤ Integrated AWS DynamoDB + S3 backend to store registrations, resumes, and event logistics for 1200+ users.

CMSC 447 Retriever Essentials Inventory Manager   February 2025 - May 2025

➤ Built a full-stack inventory & checkout system (Next.js + Express + Supabase) with barcode scanning support.

➤ Implemented Clerk auth with GitHub login and Docker dev setup.

➤ Managed CI/CD and issue tracking using GitHub and Jira.

American Sign Language Image Recognition Program   July 2023 - August 2023

➤ Developed a TensorFlow/OpenCV model to classify ASL letters with ~90% accuracy

➤ Built a small HTML/CSS interface as a seamless landing page while the model loads.