Darsh Patel

Baltimore, MD | dpatel37@umbc.edu |Personal Site |LinkedIn| Github

EDUCATION

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