

# Darsh Patel

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## EDUCATION

### **B.S in Computer Science**

Expected: May 2026

University of Maryland - Baltimore County

#### **Related Coursework:**

Object Oriented Programming, Data Structures, Artificial Intelligence, Computer Organization, Principles of Programming, Statistics

#### **Extracurriculars/Honors:**

-Appointed as incoming GDG Lead for Fall 2025 and Spring 2026, fostering collaboration among over 100+ members to promote skill development and knowledge sharing within UMBC's tech community.

-Attained Dean's List distinction for the Spring 2024 semester, demonstrating academic dedication in achieving a gpa above 3.5.

## SKILLS

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

**Frameworks/Libraries:** React, Next.js, Node.js, Tailwind, Firebase, NumPy, OpenCV, TensorFlow, Plotly, Flask, React-Native

**Tools:** MySQL, MongoDB, Microsoft SQL Server, AWS, Git

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

## EXPERIENCE

### **Lead Software Engineer – hackUMBC**

March 2024 - Present

- Aided fellow organizers in hosting a 24-hour collegiate hackathon with over 440 participants by managing technical team to develop and update hackathon website and app, that both participants and organizers used throughout the event.
- Spearheaded a technical team of 6 to migrate hackUMBC.tech to Next.js, reworking the front-end with React, JavaScript, and Tailwind while configuring an AWS backend to improve data management and support secure, scalable operations.
- Streamlined participant data collection by integrating a registration form using AWS tools, which ensured scalability and reliable service for 440+ contestants.

*React • Next.js • Python • JavaScript • Tailwind • AWS • Lambda • DynamoDB • S3 • GitHub • Google Apps Scripts • Project Management*

### **Undergraduate Researcher – UMBC DAMS Research Group**

September 2024 - Present

- Composed over 20+ Python scripts for advanced prompt engineering, analyzing and summarizing thousands of privacy policies to evaluate the processing capabilities of large language models within the GenAIPABench project.
- Designed and deployed a React-based website with a Firebase backend to store, categorize, and enable efficient search functionality for over 1000+ privacy policies, creating an interactive platform for presenting project findings.

*React • Next.js • JavaScript • Python • Firebase*

### **Web Development Intern – CHOYCES LLC**

September 2024 - Present

- Optimized the CHOYCES website using WordPress, JavaScript, and CSS to boost user engagement, increasing retention rates by 50%.
- Conducted research on optimizing CHOYCES website viewports for mobile and tablet devices, implementing adjustments that led to a 35% improvement in user engagement and retention through enhanced, device-responsive layouts and user-friendly design.

*WordPress • JavaScript • HTML/CSS • Git • Plotly*

## PROJECTS

### **hackUMBC Website**

August 2024 - September 2024

- Architected a responsive front-end for [hackUMBC.tech](https://hackUMBC.tech) using React, Next.js, CSS, and Tailwind, to ensure a seamless experience across devices, resulted in positive feedback from 90% of users for its intuitive design and smooth transitions.
- Constructed a robust AWS backend for participant registration using DynamoDB and S3, securely storing user information and providing reliable access to resumes and registration details from over 440 participants.

### **Full-Stack Note Taking Tool**

August 2024 - September 2024

- Developed a full-stack note-taking tool leveraging TypeScript and Next.js, optimizing data retrieval speeds by 40% through efficient database queries.
- Configured server-side authentication via Clerk and Convex with GitHub integration, allowing seamless login for 200+ users, elevating user experience and security across platforms.

### **American Sign Language Image Recognition Program**

July 2023 - August 2023

- Engineered an AI and ML-powered American Sign Language (ASL) recognition system, trained using python, enhancing accuracy by 90%.
- Leveraged machine learning algorithms and key libraries, including OpenCV and TensorFlow, to optimize image processing and hand signal detection by 50%.
- Implemented an [HTML/CSS landing page](#) to create a user-friendly interface, which boosted user retention and engagement by 20%.