

# Dhruv Shah

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## EDUCATION

University of Maryland Baltimore County  
Bachelor of Science  
Major in Computer Science; Minor in Entrepreneurship

Catonsville, MD  
Expected May 2027

## WORK EXPERIENCE

### Solar Marketing Agency

Web Developer

Remote  
Feb 2023 – Jan 2024

- Utilized innovative website design techniques to create an intuitive and user-friendly website
- Designed and developed a professional website for Social Media Marketing Agency ( SMMA ) from concept to completion, effectively showcasing the agency's services, portfolio, and enhancing its online presence
- Implemented advanced scheduling algorithms using JavaScript, reducing event processing time by 30% over a 6-month period, enhancing user experience and increasing client satisfaction

## PROJECTS

### HomeworkHQ

Jan 2024

- Developed a full-stack web application "Homework HQ" using React.js for the front-end, Express.js and Node.js for the back-end, showcasing proficiency in modern JavaScript frameworks and server-side development.
- Implemented a robust database system using MongoDB, enabling efficient data management and retrieval for the Homework HQ application, demonstrating skills in NoSQL database integration and API development

### EDU-HUB

Apr 2025

- Engineered the backend for a role-based academic web app using Node.js, Express.js and MongoDB, enabling collaboration between Professors, TAs and Students.
- Integrated Gemini 2.0 API to analyze uploaded exam PDFs and DOCX files, generating topic breakdowns, difficulty assessments, and prioritized study suggestions

## INDUSTRY EXPERIENCE

### GE Aerospace Explore Digital Technology Virtual Experience

Jan 2024

- Drafted clear technical requirements for a feature, suggesting optimal order times for plane parts. Explored strategies to align technical specification with business requirements, ensuring effective solutions

### Goldman Sachs Software Engineering Virtual Experience

Sep 2024

- Identified that the company was using an outdated password hashing algorithm by cracking passwords using Hashcat. Wrote a memo for my supervisor summarizing a range of proposed uplifts to increase the company's level of password protection including extending minimum password length and using a dedicated hashing algorithm

## ACTIVITIES

### South Asian Student Association

Logistic & Event Coordinator

Towson, MD  
Sep 2024 – Jan 2025

- Collaborated with a team to plan engaging events for 100+ attendees, fostering a sense of community among South Asian Students and promoting cultural awareness on campus.

### Towson University Cyber Defense Club

Frontend Developer

Towson, MD  
Aug 2023 – Jan 2025

- Currently redesigning and optimizing the official Towson University Cyber Defense Club Website
- Implementing responsive design techniques to ensure seamless functionality across all devices

## ADDITIONAL

**Technical Skills:** JavaScript, Java, Python, React.js, Express.js, MongoDB | **Languages:** English, Gujarati (Conversational), Hindi (Conversational) | **Soft Skills:** Problem-Solving, Collaboration, Communication, Time Management, Adaptability