SUHAAN BARU

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EDUCATION

• University of Maryland, College Park Bachelor of Science in Computer Science

College Park, MD

Present

Projects

- BEAM Analysis Website | React, Axios, Express, MySQL
 - Developed during Shertech Internship to analyze building energy and equipment usage.
 - Created multi-page forms for building details, utilization metrics, and equipment inputs.
 - Implemented persistent state management so data stayed saved when navigating pages.
 - Designed a top-bar navigation timeline for key project stages, dynamically highlighting the current step.
 - o Connected to backend APIs for storing and retrieving data from a MySQL database hosted via Express.
- Facial Recognition App | React, Python, OpenCV
 - Built a facial recognition pipeline using OpenCV to detect and identify faces from a trained dataset.
 - o Implemented ingestion of known_faces images and metadata handling for recognition accuracy.
 - o Developed a React front-end for live camera feed and real-time recognition results.
 - Explored automation triggers such as notifications and smart device control after successful recognition.

TECHNICAL SKILLS

- Languages: Java, Python, C, JavaScript (ES6+), SQL (MySQL/Postgres), HTML/CSS
- Frameworks / Libraries: React, Node.js, Express, Flask, FastAPI, Material-UI
- Tools: Git, Bitbucket, VS Code, IntelliJ
- Datastores / Other: MySQL, PostgreSQL, Google Cloud Platform, NumPy, pandas, Matplotlib

EXPERIENCE

• Harvard University

2025Online

CS50: Introduction to Computer Science

and

- Completed portions of Harvard's CS50 course covering C programming, algorithms, data structures, memory, and foundational computer science concepts.
- Mathnasium May 2024 Jun 2025

 $Part ext{-}Time\ Instructor$

Flemington, NJ

- $\circ~$ Taught math to students ages 7 to 15, focusing on problem-solving and mental math.
- $\circ\,$ Incorporated Mathnasium methods to help students solve problems efficiently.

• Kumon Aug 2020 – Oct 2022

Part-Time Instructor

Flemington, NJ

- o Guided students in math and English concepts, preparing them for advanced coursework.
- o Developed a quiz portal for Computer Science class using JavaScript.

• School Library May 2023 – Jun 2025

Human Resources Intern

Flemington, NJ

- Fixed and set up school computers, installed software/operating systems, and replaced hardware.
- Configured Z-Space computers with advanced eye-tracking for 3D object interaction.

• Nokia Bell Labs

Jul 2023 – Aug 2023

Team Lead

New Providence, NJ

- \circ Led the design and build of a robot using a swerve drive base for omnidirectional movement.
- Competed in the RVSTS state-level robotics competition.

• Tutor – 8th Grade Math

Jun 2025 – Aug 2025

Private Tutoring

Remote

• Tutored 8th grade math for 5 weeks, 5 days/week using IXL and custom practice plans.

Additional

- Robotics (Mechanical Captain): Led design and driving; Impact Award Winner, Regional 1st Place, Top 15 District Finish.
- Investing Club (President): Hosted Wall Street trip for 30+ members; created Stock Market Game.
- Tech4TEENS (Business Lead): Taught coding/math to 3rd-4th graders; expanded program to 20+ members.
- Debate (Vice President): Organized fundraisers; multiple 1st place finishes in Parliamentary Debate.
- Volunteering: Unified Basketball (2024 State Champion), HOPS Volunteering, FLL Explore STEM mentor.