Suhaan Baru

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Education

- **University of Maryland, College Park** — College Park, MD
  Bachelor of Science in Computer Science — *Expected May 2028*
  - **Relevant Coursework:** Object-Oriented Programming I & II, Linear Algebra

Experience

- **App Dev Club – Amazon Project Kuiper** — Sept 2025 – Present
  Frontend Engineer — *University of Maryland*
  - Collaborating on a full-stack AWS application to visualize predictive analytics for satellite ground station site selection.
  - Developing responsive React components and improving backend API integration for real-time data visualization.

- **Maryland Masti** — Sept 2025 – Present
  Technology Chair — *University of Maryland*
  - Maintain and enhance club website for competition logistics, registration, and live updates.
  - Modernized frontend design with responsive layouts using HTML, CSS, and JavaScript.

- **Big Think AI Club - Medical Report Summarizer** — Sept 2025 – Present
  Full Stack Engineer — *University of Maryland*
  - Developing a web platform for the *Medical Summarizer* project, enabling AI-driven analysis and summarization of medical reports.
  - Building frontend dashboard in React and TailwindCSS for uploading reports and displaying generated insights.

- **Harvard University** — Jun 2025 – Aug 2025
  CS50: Introduction to Computer Science — *Online*
  - Studied C programming, algorithms, data structures, and memory management through project-based learning.
  - Applied course concepts in programming assignments emphasizing debugging and computational problem-solving.

- **Mathnasium** — May 2024 – Jun 2025
  Part-Time Instructor — *Flemington, NJ*
  - Instructed students in Grades 2–10 in math and logic, strengthening analytical and problem-solving skills.
  - Created individualized learning plans and guided students in advanced math and programming topics.

Projects

- **BEAM Analysis Website** | *React, Axios, Express, MySQL*
  - Built during Shertech Internship to analyze building energy and equipment usage with data-driven forms and visualizations.
  - Integrated multi-page navigation and backend APIs with MySQL for persistent data management.

- **Facial Recognition App** | *React, Python, OpenCV*
  - Developed a full facial recognition pipeline using OpenCV and Python with live detection in React UI.
  - Implemented user-friendly interface to display real-time recognition results and data insights.

Technical Skills

- **Languages:** Java, Python, C, JavaScript, SQL (MySQL/Postgres), HTML/CSS

- **Frameworks / Libraries:** React, Node.js, Express, FastAPI, OpenCV, TailwindCSS

- **Tools:** Git, Bitbucket, VS Code, IntelliJ

Additional

- **Robotics (Mechanical Captain):** Led mechanical design and robot driving; Impact Award Winner, Regional 1st Place, Top 15 District Finish.

- **Tech4TEENS (Business Lead):** Taught coding and math to elementary students, expanding program to 20+ members.

- **Debate & Volunteering:** Vice President of Debate; Unified Basketball (2024 State Champion), HOPS Volunteering, STEM mentor.