

# SAUMYA BRAHMBHATT

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## Education

### University of Maryland, Baltimore County

Aug. 2025 – May 2027 (Expected)

Bachelor of Science in Computer Science – Specialization AI/ML, Honors College

Baltimore, MD

### Harford Community College

Aug. 2023 – May 2025

Associate of Applied Science in Computer Science with High Honors

Bel Air, MD

GPA: 4.00/4.00

Top 10% – National Board Exam, India

### Relevant Coursework

- Data Structures and Algorithms
- Database Management
- Artificial Intelligence
- Machine Learning
- API Usage
- Object-Oriented Programming

## Experience

### University of Maryland, Baltimore County

Baltimore, MD

Teaching Fellow–Social / Ethnic Issues in IT

Sept 2025 – Present

- Assist faculty in course delivery, grading, and discussion facilitation for undergraduate IT students.
- Lead conversations on diversity, equity, and ethical issues in technology, fostering inclusive learning.
- Support student research projects and assignments, enhancing critical thinking and analytical skills.
- Collaborate with faculty to develop inclusive course materials and classroom activities.

### Harford Community College

Bel Air, MD

AI/ML Curriculum Development Intern

March 2025 – Present

- Collaborated with faculty to design a new AI/ML track for credit and non-credit pathways, ensuring alignment with Maryland Higher Education Commission (MHEC) standards and academic transferability.
- Co-developed course structures, learning outcomes, and skill modules (Python, neural networks, ML ethics) to meet industry demands.
- Led curriculum development via Git and researched 15+ AI/ML programs for a Maryland state proposal.

Teaching Assistant

April 2024 – May 2025

- Assisted 200+ students in programming C/C++, Java, Physics, Chemistry, and Math.
- Supported the Learning Center and promoted CRLA Certification Training.

## Projects

### BizChat – LLM-Powered Business Plan Assistant | React, Next.js, Firebase, Whisper-1

Sept 2025 – Present

- Built a web app helping small business owners create business plans regardless of technical skill, informed by 4 workshops and 15 interviews.
- Applied HCI-driven design to improve accessibility 40% and reduce drafting time 60%.
- Integrated GPT-4 Turbo and Whisper-1 for real-time, section-level business plan generation (< 2s latency).

### ScholarSnap – AI-Powered Paper Summarizer | Python, Streamlit, Hugging Face, OCR, NLP

May 2025 – Present

- Developed an AI-powered academic paper summarization platform using Tesseract OCR and transformer models (T5, BART), reducing manual reading time by up to 80%.
- Optimized backend processing pipeline to improve summarization speed by 60%, enabling real-time responsiveness.

### Numerical and Experimental Study of 1D Falling Disks with Air Resistance | MATLAB, Data Analysis

April 2025

- Presented original research on 1D motion of falling disks at the 10th Annual Maryland Collegiate STEM Conference, highlighting skills in experimental design and MATLAB-based simulation.
- Engineered automated PASCO Capstone system, capturing time-of-flight data with 99% accuracy over 100+ trials, reducing timing errors by 15%.
- Built MATLAB simulations using ode45 to model drag forces, achieving under 5% computational error and improving prediction accuracy by 20%.

### Sliding Puzzle Game | C++, Windows API, OOP, Memory Management

Nov 2024

- Built an NxM sliding tile puzzle in C++ with real-time color transitions and animations using Windows API.
- Demonstrated advanced object-oriented design, dynamic memory management, and pointer-based board manipulation.

## Technical Skills

Languages: Python, Java, C/C++, HTML/CSS, JavaScript, SQL

Developer Tools: VS Code, MATLAB, Jupyter Notebook

Technologies/Frameworks: Git, GitHub, Hugging Face, Streamlit, Tesseract OCR, NLP, Docker

## Leadership / Extracurricular

### Honors Council

Fall 2024 – Spring 2025

Vice President

Harford Community College

- Led 5+ initiatives, boosting student engagement in academics by 20% in two semesters.
- Managed 10+ council members and ran weekly meetings to oversee progress in essential parts of the council.