

# Arnav Deepaware

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## Education

**B.S. in Computer Science** | *CUNY City College of New York*

GPA: **3.74** | *May 2027*

**Relevant Coursework:** Software Engineering, Operating Systems, Database Management, Algorithms, Data Structures, Intro to C++, Object Oriented Programming (Java), Computer Security, Distributed Algorithms, Linear Algebra

**Languages:** Python, Java, C++, JavaScript, Dart

**Frameworks & Libraries:** React, Flask, Spring Boot, MongoDB, MySQL, REST APIs

**DevOps:** Git, GitHub Actions, Docker, AWS Cloud, Azure, Google Cloud, CI/CD, Postman

## Experience

**Software Engineer Intern** | *truCurrent*

*New York, NY | Jun 2025 – Present*

- Built a SharePoint dashboard with Python backend (Azure App Service B1) and React.js for internal file workflows.
- Programmed automated data validation pipelines utilizing Python, converting CSV inputs to Parquet, and generating 14 insightful metrics, enhancing data processing speed by 25% for internal stakeholders.
- Developed a Legislative Tracker web app (Python, Streamlit, LegiScan API) for tracking weekly bill status changes across the US, with a local run workflow and hands on documentation for policy staff.

**Tech Fellow** | *CUNY Tech Prep*

*New York, NY | Aug 2024 – May 2025*

- Selected among 130 students for the fellowship from 5,000 computer science students across 25 CUNY colleges.
- Engineered 3 data science projects on predictive modeling, traditional ML algorithms and RAG systems.

**Computer Science Tutor** | *CUNY City College*

*New York, NY | Feb 2024 – May 2025*

- Guided 16+ students in CS concepts, C++ and Java assignments, and debugging, leading to improved performance.
- Collaborated with 4 fellow tutors to develop effective teaching strategies and support student success.

**Software Engineer Intern** | *The Difference App*

*New York, NY | Jul 2024 – Aug 2024*

- Updated app's profile screen with 23 endpoints and state management to handle new data from the backend.
- Developed 3 pre-production profile screens in Dart, aligning with the company's Figma designs and UI/UX plans.

## Projects

**SpeakSpaceVR** – SBU Hacks

*Nov 2025*

- Built a browser-based VR public speaking coach simulating realistic classrooms, auditoriums, and conferences.
- Implemented a MediaRecorder-based pipeline to capture speech, run analysis, and track progress across user sessions.
- Developed the Flask + WebSocket layer to stream audio and interaction data between the WebXR client and AI speech analysis services with minimal end-to-end 200 ms latency.
- **Technology:** WebXR, A-Frame, Three.js, Python (Flask), WebSockets, Deepgram, Whisper, Gemini, Node.js

**A-eye** – Queens College Hack | *Health Track Winner*

*Oct 2025*

- Built an assistive vision system that streams live camera feed to a Gemini backend to detect packaged food, read labels, and generate nutrition/allergen summaries with accessible voice responses.
- Implemented a fully voice-driven interaction loop: from basic IOT operations to STT → Gemini reasoning → TTS over WebRTC, enabling real-time product queries and user interaction .
- **Technology:** Node.js, Express, Next.js, Gemini (Vision/Chat), WebRTC, WebSockets, ElevenLabs

**SitRight** – HackKnight | *Second Best Hack*

*Mar 2025*

- Designed an AI-powered posture detection application that provides real-time feedback, continuous monitoring and alerts.
- Trained a machine learning model with 90% accuracy, inputting body parts' ratios and angles to predict scores.
- Created a WebSocket server to seamlessly connect webcam input of 30 fps to backend TensorFlow model to frontend.
- **Technology:** Python, WebSockets, OpenCv, MediaPipe, TensorFlow, Keras, Scikit-learn, Chart.js

## Leadership

**Logistics & Engagement Director** | *TEDxCUNY*

*New York, NY | Sep 2023 – Present*

- Lead a team of 22 to deliver and execute the largest university TEDx conference in the U.S.
- Secure 50+ sponsors and coordinate 13+ workshops, resulting in a 30% increase in sponsorship revenue.
- Coordinate logistics and operations for the 8-hour conference, ensuring a positive experience for 650+ attendees.