AYUSH NIGAM

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-- **EDUCATION** --

University of Maryland, Baltimore County (UMBC), *Baltimore, Maryland*   *(Expected graduation: **May 2024**)*

- ❖ Dean's Fellowship Scholar
- ❖ Current GPA: **3.894 / 4.0**
- ❖ **Bachelor of Science in Computer Science**
  Track: Artificial Intelligence/Machine Learning & Data Science
  Minor: Photography
- ❖ President's List and Dean's List for 6 semesters
- ❖ Relevant coursework: Artificial Intelligence, Machine Learning, Data Science, Data Structures, Design and Analysis of Algorithms, Computer Organization & Architecture, Operating Systems, Natural Language Processing, Database Management Systems, Software Engineering, Human-Brain Computing.

-- **SKILLS** --

- ❖ **Programming languages:** Python, C++, Java, Assembly x86/ARM, Haskell, Kernel C.
- ❖ **Foreign languages:** Hindi (Native speaker).
- ❖ **Software:** ArcGIS, Microsoft Office Suite, Adobe Creative Suite, Cameo Enterprise Architecture, Xilinx.
- ❖ **Security Clearance:** Active Secret level security clearance (May 2023 - Present)

-- **PROFESSIONAL EXPERIENCE** --

Research Assistant | UMBC, *Baltimore, MD*   *(September 2023 - January 2024)*

- ❖ Implemented Python scripts to generate analytical accuracy reports of CSV files for stress and performance levels of contestants in different cognitive gameplay scenarios.
- ❖ Conducted research to assemble state-of-the-art datasets that can be used to train machine-learning models on biometric data like pupillary data, skin conductance, and ECG/EDA reports.

Systems Engineer Intern | Northrop Grumman Corporation, *Baltimore, MD*   *(June 2023 - August 2023)*

- ❖ Designed a sensor simulation architecture and interfaces for an antenna system.
- ❖ Implemented changes to the current testing apparatus of a program model to make it efficient and developer-friendly.
- ❖ Built Model-Based Systems Engineering (MBSE) Models in Cameo Enterprise Architecture.

Lead Resident Assistant | UMBC, *Baltimore, MD*   *(August 2022 - Present)*

- ❖ Fostered developing relationships among 60 residents and 12 staff members within a residence-hall-style living space and was available 24/7 to help resolve conflicts.
- ❖ Counseled and advised residents on academic and personal questions and concerns.
- ❖ Managed administrative duties like budgeting, maintenance requests, incident reports, and room transfers.

Grit Guide & Public Contact | Office of Undergraduate Admissions *UMBC, Baltimore, MD*   *(February 2022 - Present)*

- ❖ Conducted campus tours and developed customer service, organizational abilities, and public speaking skills.
- ❖ Managed and worked with confidential and sensitive data used for prospective students and welcomed prospective students and parents to the university under Office of Undergraduate Admissions guidelines.

Student President Intern | National Society of Leadership and Success, *UMBC, MD*   *(February 2022 - February 2023)*

- ❖ Started a new NSLS chapter and facilitated a leadership development program for my fellow students at UMBC.
- ❖ Identified and recruited an executive board team as well as a staff advisor.

Software Intern | Synergy Systems & Services, *Baltimore, MD*   *(December 2021 - January 2022)*

- ❖ Implemented Python script to move data from local databases to online archives.

Teaching Assistant | Computer Science 201, *UMBC, Baltimore, MD*   *(August 2021 - January 2022)*

- ❖ Taught Python to underclassmen and graded assignments and exams for the class.
- ❖ Held office hours for 5 hours weekly to help students debug their code.

-- **LEADERSHIP & ACHIEVEMENT** --

- ❖ **President** of the UMBC Photography Club   *(August 2021 - Present)*
- ❖ **Ranked 10th out of 2000** in Code-A-Thon held by Hackerrank   *(September 2020)*
- ❖ **UMBC Men's Rugby**   *(February 2022 - Present)*