

# Aswanth Jeyaram Kumar

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<https://github.com/Ash-bytes11>

## EDUCATION

### University of Maryland, Baltimore County (UMBC)

Baltimore, MD

*Bachelor of Science in Computer Science - Artificial Intelligence/ Machine Learning*

*May 2026*

## TECHNICAL SKILLS

**Languages:** Python, C++, JavaScript, Prolog, PostgreSQL

**Developer Tools:** VS Code, MongoDB, Github, JIRA, Matlab, BlueJ, PyCharm, Edpy (Edison Robot)

**Technologies:** MS Office Suite, Google Suite

## EXPERIENCE

### Secretary

May 2024 – Present

*UMBC Tennis Club*

*Baltimore, MD*

- Managed social media presence on Instagram to engage club members and provide timely updates on events.
- Communicated effectively with members via email and GroupMe for updates on practices and tournaments.
- Assisted in organizing travel logistics for tournaments and other club activities.

## PROJECTS

### Family Tree | *Python*

August 2023

- Created a program to build and query relationships within a family tree by setting parents, ancestors, and displaying family data.
- Used Python dictionaries, recursion, file I/O, and object relationships.

### Airline Manager | *C++*

April 2024

- Developed a tool to manage airline routes using a linked-list data structure and dynamic memory allocation.
- Implemented features to create and manage routes, calculate distances between airports, and utilize airport information from a text file.
- Applied C++ class syntax and object-oriented principles to model airline routes and operations.

### Movie Player | *C++*

June 2024

- Built a movie player to create playlists from a large collection of titles, where movies can be searched, added, deleted and compared using different filter options. Works by managing dynamic memory and ensuring leak prevention.
- Utilized basic C++ syntax, templated data structures, and overloaded operators for data management.
- Covered C++ topics: class syntax, dynamic memory management, and operator overloading.

### WorkGen | *Python, MongoDB, Express.js, JavaScript*

September 2024

- Developed a quiz/test generator in a team of three at HackUMBC.
- Utilized OpenAI API to generate a quiz/test based on users' input of subject, difficulty, and number of questions.
- Created a RESTful API using Express.js with MongoDB Atlas for database storage, including JWT-based authentication for secure user access.
- Outputted the questions and answer keys as PDFs to assist users in studying/teaching.

## CERTIFICATIONS

### Python Program Certificate

FreeCodeCamp.org

*Scientific Computing with Python*

*June 2023*

<https://www.freecodecamp.org/certification/AshGetsCash/scientific-computing-with-python-v7>

## RELATIVE SUBJECTS

**Courses:** Data Structures, Algorithms, Artificial Intelligence, Software Engineering, Database Management

**Activities:** HackUMBC – developed and trained machine learning models, American Institute of Aeronautics and Astronautics (AIAA), Tennis Club

**Interests:** AI/ML in Aviation and Autonomous Vehicles, Software Development, Cybersecurity