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, GPA: 3.1 — *May 2026*

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, Prolog, PostgreSQL
Libraries & Frameworks: PyTorch, TensorFlow, Scikit-learn
Developer Tools: VS Code, MongoDB, Github, JIRA, Matlab, BlueJ, PyCharm, Edpy (Edison Robot)
Technologies: MS Office Suite, Google Suite

EXPERIENCE

STEM Instructor — June 2025 – August 2025
iD Tech, University of Maryland — *College Park, MD*
- Instructed students ages 7–17 in Python 2D game development, introductory AI/ML, and VEX Robotics BattleBots during week-long summer camps.
- Led hands-on coding and engineering projects, teaching foundational programming concepts, algorithmic thinking, and robot design.
- Facilitated teamwork, creativity, and engagement through daily challenges and personalized guidance aligned with iD Tech's curriculum.
- Designed and presented personalized diplomas recognizing each student's achievements in software development and robotics.

President — May 2025 – Present
UMBC Tennis Club — *Baltimore, MD*
- Lead the club's executive board in organizing events, managing logistics, and representing the club at university functions.
- Oversaw social media strategy, internal communications, and member engagement initiatives.
- Coordinated tournaments, practice schedules, and travel, ensuring smooth operations and team cohesion.

Secretary — May 2024 – May 2025
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

Retriever Essentials | Java, MySQL, Docker, React, HTML/CSS, Postman, Jupyter Notebook — May 2025
- Built a full-stack inventory and self-checkout system for UMBC's Retriever Essentials in a team of three.
- Implemented a RESTful API with JWT-based RBAC using Spring Boot and MySQL; frontend built with React and Node.
- Developed and tested backend features for item tracking, user management, and analytics via 269 unit and 93 endpoint tests.
- Created a Jupyter Notebook CLI to test APIs and validate inventory flow.
- Led sprint planning and stakeholder demos; deployed with Docker and planned OAuth2 login integration.

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 quizzes based on user input for subject, difficulty, and number of questions.
- Created a RESTful API with MongoDB Atlas and JWT-based authentication for secure access.
- Exported quiz content as PDFs to support study and teaching use cases.

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.

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.

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