

# FATIMA MBODJI

## Computer Science Student | Aspiring AI/ML Specialist

(404) 933-5953 | [fmbody@montgomerycollege.edu](mailto:fmbody@montgomerycollege.edu) | [linkedin.com/in/fatima-mbody](https://www.linkedin.com/in/fatima-mbody) | Silver Spring, MD 20901

### EDUCATION

**Associate of Science in Computer Science** - Montgomery College, Takoma Park

**May 2025**

- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Discrete Mathematics
  - Honors: GPA of 3.84/4.0 - Dean's List | Academic Excellence Award (May 2024)
  - Affiliation: Southern Management Leadership Program, STEM Scholars, Renaissance Scholars, CodePath
- Planned Transfer: University of Maryland, College Park - Bachelor of Science in Computer Science (*Expected May 2027*)

### SKILLS

- **Languages:** Python (Data Analysis & Visualization using Pandas, NumPy, Matplotlib), Java (Data Structures & Algorithms, Object-Oriented Programming), C/C++ (Introductory Programming), HTML/CSS/JavaScript (Intermediate), React (Beginner)
- **Tools & Applications:** UML, Git, GitHub, Eclipse, Jupyter Notebook, Google Colab, Visual Studio Code
- **Operating Systems:** Windows, Linux (Ubuntu)
- **Spoken Languages:** English (Fluent), French (Fluent), Wolof (Native)

### WORK EXPERIENCE

**National Institute of Standards & Technology (NIST)**

**June 2024 – Present**

**Computer Science Intern - Embodied AI Project:** September 2024 – Present

- Assisted in developing a machine learning (ML) translator tool to convert robot controller programming languages into a unified format for improved manufacturing robotic systems efficiency
- Built and trained ML models by processing and translating data from various robot controllers to create a robust dataset for AI-based evaluations in manufacturing

**Computer Science Intern - Surfside Condo Collapse Project:** June 2024 - Present

- Led tagging of 15k+ data items, ensuring metadata accuracy, improving data retrieval by 30% and supporting structural safety assessments
- Handled high-priority data requests, delivering timely and accurate responses to meet urgent project needs
- Contributed to curation of over 60k data items for SQL database integration, optimizing workflows and enhancing long-term data accessibility for analysis

**Montgomery College** - Computer Science (CS) & Math Tutor

**Feb 2024 – Present**

- Tutored 30+ students weekly in CS and Math enhancing their understanding of assignments, exam prep, and course material
- Customized tutoring strategies to fit diverse learning styles, leading to a 15% average improvement in academic performance

**Montgomery County Department of Recreation** - After-School coding instructor

**Jan 2024 – Present**

- Designed and taught coding curriculum for the "Animation and Game Design" module in 3+ MCPS middle schools, increasing student engagement and programming proficiency by 25%
- Utilized engaging platforms to create collaborative learning environments, foster creativity and technical skills

**B&G Digital** - Web Developer Summer Intern (in Dakar, Sénégal)

**June 2021 – Aug 2021**

- Built interactive UI components for a delivery management system using Angular, enhancing user experience and improving transaction efficiency
- Created UML diagrams and integrated APIs to ensure smooth front-end/back-end communication and developed technical documentation to support smooth integration

### LEADERSHIP

- Phi Theta Kappa (PTK) | Marketing Chair: Boosted PTK event participation by 40% through strategic social media campaigns and enhanced event appeal, leading to record-high engagement
- Raptor Who Code | Officer: Contributed to the CS website building and student engagement initiatives
- Academic Services Council | Officer: Advocated for student causes, represented peers, and collaborated with faculty and council members