Shaliah Fricas

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EDUCATION

University of Massachusetts, Boston | Boston, MA   Expected Graduation: May 2027

B.S. - Computer Engineering | Minor in Computer Science   Cumulative GPA: 3.3

Undergraduate Researcher - UCAN Lab|(Advisor: Prof. Rahaim)|UMass Boston   September 2025 - Present

- Exploring hybrid RF/optical architectures towards 6G and investigating light-based access for 5G offload; collecting link features and training a kNN baseline using machine learning to predict the best link.

Coursework: Intro to Python, Data Structures & Algorithms, Programming in C++, Circuit Analysis, Calculus 1 & 2, Honors Applied AI, Engineering Design, Discrete Math, Linear Algebra

Certifications & Programs:

- Apple Certification, AI Agent Foundations, Agentic AI for Business, Multi-Tier AI Agent Architecture
- Oxford Saïd Business School Artificial Intelligence Programme Alumni

Extracurricular Activities:

- Engineering & Robotics Club, Research, Gaming Club, and Growing Women in Science

SKILLS & TECHNICAL TOOLS

Skills: Python, Java, JavaScript, HTML/CSS, C++, MATLAB, kNN (scikit-learn), OWC/Li-Fi, AI/ML, Research

Technologies: VS Code, PyCharm, Jupyter Notebook, Matplotlib, CAD, TinkerCad, Arduinos, Oscilloscopes, LLMs

Languages: English (Primary) | Spanish (Fluent; Reading & Writing)

EXPERIENCE

Operations and App Development Intern | Arka HR   June 2023 - December 2024

- Solving problems, improving public access to HR resources, enhancing data accuracy, and project timelines.
- Applying technical knowledge to design and maintain automated processes to significantly reduce manual tasks and increase team productivity.

Certified Apple Computing Advisor | Best Buy   August 2023 - January 2025

- Diagnosing and solving system failures, component malfunctions, and software issues for optimal performance.

AI Agent Builder Intern | NeuralSeek   August 2025 - September 2025

- Working with a team to design and deploy generative AI agents that address real-world challenges for industries like HR, Healthcare, and Business.

PROJECTS

Audio Recording Processing Program (SmoothTunes) | C++ |[Link](#)

- An application that processes and analyzes audio recordings, providing users with precise file quality selection, streaming cost breakdown, and enhanced user experience through robust input validation and detailed output formatting.

MediSeek (Biomedical AI Troubleshooting Agent | NeuralSeek, AI Agent Editor, Generative AI |[Link](#)

- Designed and deployed an AI-powered troubleshooting agent to assist biomedical engineers and medical staff in diagnosing common device faults (ex: infusion pumps, patient monitors).
- Integrated structured prompts and device-specific error parameters to provide a step-by-step guide to improve efficiency in resolving technical issues.

Arduino Calculator | Arduino IDE, C++ , CAD|[Link](#)

- A calculator built using 3D printing and Arduino IDE that can calculate positive integers in two number bases, binary and decimal.

Speech to Text | Python |[Link](#)

- Developed a speech-to-text recognizer using Python, enhancing accessibility for users with hearing impairments.