

# Shaliah Fricas

shy.fricas30@gmail.com • [Website](#) • [linkedin](#) • [github.com/shyfricas](#)

## EDUCATION

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**University of Massachusetts, Boston | Boston, MA**

Expected Graduation: May 2027

B.S. - Computer Engineering | Minor in Computer Science

Cumulative GPA: 3.3

**Undergraduate Researcher - [UCN 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

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**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

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**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

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**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.