SHALIAH FRICAS

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EDUCATION

University of Massachusetts, Boston | Boston, MA Expected Graduation: May 2027
Bachelor of Science in Computer Engineering | Minor in Computer Science
Cumulative GPA: 3.52
Relevant Coursework: Python, Data Structures & Algorithms, Programming in C++, Circuit Analysis, Calculus 1-3, Honors Applied AI, Engineering Design, Discrete Math, Linear Algebra, Digital Systems, Physics
Certifications & Programs: Apple Certification, AI Agent Foundations, Agentic AI for Business, Multi-Tier AI Agent Architecture, Oxford Saïd Business School Artificial Intelligence Programme Alumni

TECHNICAL SKILLS

Skills: Soldering, PC Building, IT Troubleshooting, Device Repair, MRI Analysis, Digital/Analog Circuits, ML, C++, Python, MATLAB, OWC/Li-Fi, Problem Solving, Critical Thinking
Technologies: VS Code, Raspberry Pi, Matplotlib, CAD, Arduinos, Microsoft Office (Word, PowerPoint, Excel), Google-Suite (Doc, Slides, Sheets), Canva, Adobe

ENGINEERING PROJECTS

AFRL/ HyLo SDR Research Project | SDR, MATLAB, Python, RF, OWC, Raspberry Pi | *In-Progress* | Link
- Develop a hybrid indoor localization system that combines RF fingerprinting with optical wireless communication (OWC/VLP) to improve accuracy in environments where GPS fails

Smart Medication Reminder Device | ESP32, Circuits, Embedded C++ | *In Progress*
- Creating an ESP32-based device that uses a buzzer, LEDs, buttons, and an OLED screen to remind users when a dose is due by using timed logic and confirmation flow, so the device can show alerts, keep track, and show the next reminder

MediSeek (Biomedical AI Troubleshooting Agent) | AI Agent Editor, Generative AI | Link
- Designed and deployed an AI-powered troubleshooting agent that supports biomedical engineers and healthcare professionals in diagnosing medical device faults (ex: infusion pumps, patient monitors), improving response time and reliability in clinical environments

WORK EXPERIENCES

UCaN Lab|(Advisor: Prof. Rahaim) | UMass Boston
Undergraduate Researcher September 2025 - Present
- Research next-gen wireless systems, including RF/optical hybrid communications, indoor localization, and SDR-based signal processing - working directly with real hardware, live data collection, and machine learning approaches to enhance wireless performance and reliability

NeuralSeek | Miami, FL
AI Agent Builder Intern (Remote) August 2025 - September 2025
- Collaborated with a team to design and deploy generative AI agents that address real-world challenges for industries like HR, Healthcare, and Business

Best Buy | Charlotte, NC
Certified Apple Computing Advisor August 2023 - January 2025
- Diagnosed and solved system failures, component malfunctions, and software issues for optimal performance

Arka HR | Boston, MA
Operations and App Development Intern June 2023 - December 2024
- Solved problems, improving public access to HR resources, enhancing data accuracy, and project timelines by using technical knowledge to design and maintain automated processes, increasing team productivity

EXTRACURRICULAR ACTIVITIES

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

ADDITIONAL SKILLS

Languages: Bilingual in English and Spanish