Rayyan Jamil

U.S Citizen | Orlando, FL

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EDUCATION

University of Central Florida   **Orlando, Florida**
B.S. in Computer Science   Expected Graduation: May 2026 (3.5 GPA)
- Orgs: UCF Badminton Team Treasurer, Pakistani Student Association President, Eli^2 Leaders Committee
- Relevant Courses: Passed FE Exam, Algorithms and Data Structures, Discrete, Calculus 1 & 2, Computer Logic, Linear Algebra, Object Oriented Programming, Compilers, Machine Learning, Cyber Defense, Database and Systems Admin, Junior Design (Full Stack)

PROFESSIONAL EXPERIENCE

Leidos   **Orlando, Florida**
Software Engineering Intern   June 2024 – Present
- Integrated Vision-Language Model (VLM) and RAG agents into Agentic AI system; decreased information processing time by 50% and improved the emergency response team's operational readiness; showcased at NVIDIA GTC 2025.
- Configured and maintained a Linux server environment utilizing Docker, hosting Tactical Assault Kit (TAK) and Extensible Messaging and Presence Protocol (XMPP) servers; achieved 99.99% uptime of critical services.
- Designed RESTful services in Unreal Engine using C++, Crow, and Python REST to enable seamless data exchange and real-time interoperability.

University of Central Florida Research   **Orlando, Florida**
Undergraduate Research Assistant   May 2024 – August 2024
- Refined image segmentation algorithms in Python using OpenCV and TensorFlow, improving accuracy in solar panel degradation assessment.
- Devised Python script to automate data extraction from the National Solar Radiation Database using zip codes, decreasing manual data entry by 75% and accelerating solar panel degradation analysis workflows.

University of Central Florida IT   **Orlando, Florida**
IT Support Engineer   November 2022 – June 2024
- Deployed customized software and hardware configurations across 150+ faculty workstations utilizing Active Directory and ServiceNow, guaranteeing uninterrupted access to critical resources, as the most junior member on the team.

Kumon Educational Network   **Viera, Florida**
Student Instructor   November 2021 – May 2022
- Developed personalized lesson plans for 10+ students based on diagnostic assessments, resulting in an average grade improvement of 1.5 letter grades within a single semester.

PROJECTS/SKILLS

Image Recognition Neural Network (*Python*)
- Enhanced image segmentation model using Python, Keras, and TensorFlow to classify boats, planes, and cars; improved accuracy from 61% to 73% using regularization and VGG-based architecture.

Event Mosaic (MERN)
- Developed a MERN stack web app that uses AI/LLM to extract and display events from Instagram captions.
- Deployed on DigitalOcean with a CI/CD pipeline for automated builds and updates.
- Led a team of five engineers using Jira, streamlining task management, sprint planning, and progress tracking.

MIPS Processor (*C*)
- Programmed a MIPS processor simulator in C on Unix, implementing a single-cycle data path to execute machine code at 1 IPC for arithmetic, logic, data transfer, and branching operations.

Aviation Design Challenge (*American Institute of Aeronautics and Astronautics*)
- Designed an RC plane. Engineered in *SolidWorks* and *XLFR5* to design the structure and simulate flight performance. Placed 2nd in the Spring 2023 Aviation Design Showcase.