

Muzamil Shamsi

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<https://www.linkedin.com/in/muzamil-dev/> | www.github.com/muzamil-dev | US Citizen

EDUCATION

University of Central Florida

August 2020 – May 2025

Bachelor of Science in Computer Science

- **Certifications:** Microsoft Office Specialist, TestOut Cyber Defense Pro, CompTIA A+
- **Organizations:** Knight Hacks, Society of Hispanic Engineers (SHPE)
- **Leadership:** MentorSHPE (Mentee/Mentor)

WORK EXPERIENCE

Toho Water Authority | Billing Intern

September 2023 – February 2024

- Validated **1,600+** weekly customer accounts for billing accuracy, identifying and debugging data discrepancies through iterative auditing within Utility Exchange software.
- Improved customer account quality by performing **400+** daily credit assessments and managing deposits and profile changes using Customer Information System (CIS) tools.
- Digitized over **2,000** legacy billing records, significantly improving retrieval speed and enhancing data security and compliance with record-keeping standards.

Eufinity Wellness | Start-up | Software Engineering Intern

October 2021 – February 2023

- Contributed to the development of a responsive web application improving accessibility and performance for **1,000+** users.
- Engineered modular front-end components, enhancing site performance while accelerating development through reusable modules, faster feature rollout, and easier code maintenance.
- Tested APIs to deliver dynamic, real-time content, decreasing data fetch latency by **20%**.
- Designed and deployed a dynamic journal entry system and integrated counselor appointment scheduling, enabling users to track progress and book sessions directly through the platform.

RaveOn Sports | IT Intern

May 2020 – September 2020

- Contributed to launching the company's first website by configuring WordPress themes and layouts using drag-and-drop tools.
- Supported early product visibility by organizing content and experimenting with SEO-friendly site structure using built-in plugins.
- Gained experience in startup collaboration by participating in initial planning calls to align website goals with business needs.

PROJECTS

Halal Finder

January 2026 – Present

- Implemented location-based restaurant discovery using native **iOS Maps API**, displaying ratings and user reviews for informed dining decisions
- Built an **iOS** app in **TypeScript/React Native** with **Supabase** backend to help users discover halal restaurants with integrated Maps and real-time reviews

Pi-hole Network Security & DNS Filtering

October 2025 – October 2025

- Improved network security by deploying a **Pi-hole DNS sinkhole** across **12+** devices, reducing malicious and tracking domain requests by **35%** through centralized **DNS filtering**.
- Increased threat visibility by analyzing **DNS logs** and integrating additional blocklists, enabling identification of suspicious queries and lowering unwanted traffic by **100K+** blocked domains

DETECT - Deception Tracking through Eye Cues Technology

January 2025 – May 2025

- Developed frontend using **Astro** and **Tailwind** for a responsive **Computer Vision** eye-tracking deception detection system.
- Deployed **PostgreSQL** in **Docker** containers to improve data storage performance and resilience.
- Integrated **Svelte** and **TypeScript** with **MediaPipe** and **TensorFlow.js** to implement real-time eye tracking and iris analysis directly in the browser at **30FPS**.
- Optimized landmark processing pipeline, reducing false positives by **~20%** and improving accuracy of iris position metrics.

Jellyfin Media Server | Self-Hosted Linux Service

August 2025 – August 2025

- Deployed and configured a Jellyfin media server on a Linux-based system for local media streaming
- Set up user accounts, library organization, and access permissions for multiple users
- Troubleshooted playback, codec, and connectivity issues across devices to ensure stable streaming performance
- Monitored server resource usage and optimized configurations for smoother media delivery

Peer Review

August 2024 – August 2024

- Designed and developed the entire frontend in **React**.
- Used **Git** for version control and **JIRA** for project tracking, contributing to on-time delivery and strong team collaboration across development sprints.

SKILLS

Programming Languages: C, Java, Python, JavaScript, TypeScript, SQL, HTML, CSS.

Technologies: React.js, Node.js, Astro, MERN Stack, OpenCV, MediaPipe, TensorFlow, Docker, AWS, Firebase, Postman, Git, JIRA, VirtualBox, Full Stack Development, Valgrind, Cybersecurity (Wireshark, Burp Suite, Ettercap)

Soft skills: Teamwork, Communication, Problem-Solving, Critical Thinking, Time Management, Adaptability, Conflict Resolution.

Languages: English, Urdu.