MAZIN SALEH

Tampa, FL | github.com/mazin-saleh | mazinsameersaleh@gmail.com | linkedin.com/in/mazin-saleh | mazinsaleh.com

EDUCATION

UNIVERSITY OF FLORIDA | **Graduating May 2026**

Bachelor of Science in Computer Science, Minor in Arabic Language & Literature, Certificate in AI | **GPA: 3.55/4**

Relevant Coursework: Intro to ML, Data Structures & Algorithms, AI Fundamentals, Operating Systems, Natural Language Processing, Databases, Linear Algebra, Malware Reverse Engineering, Intro to VR, Algorithm Abstraction & Design, Programming Language Concepts

EXPERIENCE

MICROSOFT | *May 2025 - Aug. 2025*

Software Engineering Intern

- Pioneered LTTng tracing into Xandr ad-serving platform, enabling nanosecond-level latency tracking across billions of daily auctions.
- Built runtime HTTP APIs to toggle tracing on/off with zero overhead when inactive, ensuring production-safe deployment.
- Created an in-house analyzer tool to surface P50–P999 latency insights, helping pinpoint and reduce bottlenecks by ~25%.

Software Engineering and Product Management (Explore) Intern | *May 2024 - Aug. 2024*

- Constructed 4 Power BI dashboards to track the performance of 14 ad categories, boosting low-performing ads by ~31%.
- Labeled 20K+ queries with GPT-based ML pipelines, improving ad coverage and retrieval quality across multiple categories.
- Collaborated with PMs and engineers to draft dashboard specs, run feedback sessions, and lead user testing for adoption and usability.

UF MEDIA EFFECTS AND TECHNOLOGY RESEARCH LAB | *Sept. 2025 – Present*

Research Assistant

- Assembled "Memory Box,"using Dialogflow and Google Vision to help dementia patients recall memories and recognize loved ones.
- Designed accessible, high-contrast UI/UX with intent guardrails to minimize confusion and ensure reliable interactions.
- Deployed photo-tagging and daily memory-summary features on Google Cloud to help users reminisce and maintain independence.

ZAPINTERN | *Jan. 2023 - Aug. 2024*

Founder

- Launched an internship platform with 7,600+ listings, enabling 600+ students to apply in 1-click.
- Curated ZapAI, an autofill engine that cuts application time from hours to minutes by completing complex applications end-to-end.
- Led a 3-person team with agile sprints and set up Qualtrics metrics to track platform performance.

PROJECTS

SOCIETY OF HISPANIC PROFESSIONAL ENGINEERS iOS APP | *Sept. 2023 - Present*

Senior Developer

- Launched a 5-star app serving 700+ SHPE UF members to track points, view events, and stay connected with their community on-the-go.
- Integrated Apollo GraphQL and Google APIs for real-time event syncing, reminders, and navigation, boosting attendance by ~27%.
- Built an Ollama-powered chatbot with a RESTful RAG pipeline, giving members quick org info and events, enhancing engagement.

THE LATENT OBSERVERS | *Sept. 2025 – Present*

NLP Lead

- Devised a mechanistic interpretability method to ID neurons in LLMs responsible for entailment, contradiction, and neutral reasoning.
- Implemented a TransformerLens-based intervention system to adjust neuron activations in Qwen3, measuring shifts in NLI reasoning.
- Outlined validation experiments on INLI using t-tests and permutation tests to confirm causal effects on reasoning.

FITRISK: ML HEALTH RISK PREDICTION SYSTEM | *Nov. 2024*

Project Lead

- Piloted team of 4 to build a health classifier achieving 90%+ accuracy on BMI, cardiovascular risk, heart rate, and calorie burn.
- Engineered features from 1,000+ row dataset and trained models including SVM, random forest, XGBoost, KNN, and NN.
- Balanced underrepresented health conditions to improve predictions classes like extreme BMI, and abnormal heart rate.

INVOLVEMENT

LEETGATOR | *Oct. 2024 - Aug. 2025*

President

- Founded UF's 50+ member tech interview prep club, leading weekly workshops on data structures and behavioral interviews.
- Secured $1,000+ in funding and co-hosted joint events with student orgs like a LeetCode tournament and guest speaker sessions.
- Crafted technical prep resources and built a digital community (Linktree, Instagram, Discord) for ongoing student support.
- Mentored 9 CS/CE students across 4 semesters on career development, academic planning, and campus engagement.

TECHNICAL SKILLS

Programming: Python, C++, C#, Swift, SQL, JS, HTML, CSS, Java, React | **Cloud & Platforms:** AWS, Azure, Ubuntu, WSL

Tools: ChatGPT, PowerBI, Flask, GraphQL, Apollo, Pandas, Git, Unity, VirtualBox | **Languages:** English, Spanish & Arabic (learning)