Aria Yousefi

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EDUCATION

University of Florida — Gainesville, FL
M.S. in Computer Science – GPA: 3.72 — *Jan. 2025 – Dec. 2026*
Coursework: Intermediate Urban Analytics, Trustworthy ML, User Experience Design

University of Florida — Gainesville, FL
B.Des. in Architecture, Minor in Computer Science – GPA: 3.54 — *Aug. 2020 – May 2024*
Coursework: Architectural Design, Data Structures and Algorithms

EXPERIENCE

Lead Software Engineer — October 2025 – Present
UF IoT ACREs — *Gainesville, FL*
- Lead development of full-stack React/NodeJS platform for **construction site IoT telemetry**
- Manage feature planning, task delegation, and code reviews for 4 developers
- Integrate LoRa sensors via MQTT/ChirpStack pipeline for scalable data ingestion

Full Stack Developer — January 2026 – Present
The Agency at UF — *Gainesville, FL*
- Develop React-based portfolio platform for national brand campaigns
- Implement modular case study components for Amazon Alexa initiative
- Deliver frontend enhancements for UF College of Engineering website

Software Developer Intern — May 2024 – Aug. 2024
Holiday Inn Club Vacations — *Orlando, FL*
- Built **Salesforce**-based features for customer web & mobile application in a 3-person dev team
- Developed a driver license scanner with JavaScript, cutting manual data entry by **95%**
- Implemented secure login & self-registration, streamlining user/contact data capture
- Designed website architecture and UX to improve usability and user engagement

Machine Learning Research Assistant — Sep. 2023 – May 2024
UF Intelligent Clinical Care Center (IC3) — *Gainesville, FL*
- Contributed to evaluation of object detection annotation validity using YOLO
- Developed experiments in Linux/Anaconda environment using Git

PERSONAL PROJECTS

Pave | *React Native, Flask, SQLite, YOLO* — June 2025 – Present
- Designed cross-platform **311 reporting app** (React Native/Expo)
- Developed Flask backend and SQLite data model for structured civic report intake
- Integrated YOLOv8 for **automated detection of infrastructure issues** (e.g., potholes, litter)
- Engineered data ingestion pipeline to merge public 311 records with user-submitted reports

GNV Events | *Go, SQLite, Gin, GORM* — Jan. 2025 – May 2025
- Built backend for local event tracker; designed **RESTful APIs** with Gin
- Scraped event data with Go Colly, reducing manual collection effort by **97%**
- Implemented optimized SQLite database to store event, user, and organizer data
- Collaborated in an Agile team to iteratively enhance backend performance and feature set

SKILLS

Languages: Python, JavaScript, Go, C++, SQL
Frameworks: React, Flask, Gin, Expo, Tailwind
Data & ML: NumPy, Pandas, GeoPandas, Matplotlib
Tools: Git, ArcGIS, Salesforce