

John Azer

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EDUCATION

University of Florida

Expected May 2029

B.S. in Computer Science | GPA: 4.0/4.0

- Relevant coursework: Applications of Discrete Structures, Calculus 1–3; Data Structures and Algorithms, Linear Algebra (in progress)

PROJECTS

Tropical Cyclone Intensity Estimation from Satellite Imagery

2026

Python, PyTorch, xarray, AWS S3 | hurricane.johnazer.com

- Built an end-to-end pipeline matching NOAA HURDAT2 best-track records to GOES-16 infrared imagery, handling geostationary projection geometry to produce 2,092 storm-centered samples across 15 Atlantic hurricanes
- Trained a ResNet-18 regressor achieving 9.0 kt mean absolute error on held-out storms, comparable to operational Dvorak intensity estimates
- Split data by storm to prevent leakage between near-duplicate hourly images, and evaluated performance against original 6-hourly observations separately from interpolated labels
- Identified a systematic 19 kt underestimation of major hurricanes and pointed to class imbalance and single-frame input as likely causes

Learn Orthodoxy AI

2025 - 2026

Python, FastAPI, Next.js, TypeScript, PostgreSQL, ChromaDB | learnorthodoxy.net

- Built and deployed a retrieval-augmented generation (RAG) application designed to answer from a curated document corpus and decline questions the sources do not support
- Implemented bilingual retrieval across separate English and Arabic vector collections, including text extraction from Arabic-language PDFs and a generated index for Arabic saint lookup
- Deployed across Vercel and Railway with persistent vector storage and idempotent ingestion using deterministic chunk IDs

Saint George Coptic Orthodox Church Website

2025 - Present

Next.js, React, TypeScript, Tailwind CSS, Vercel | saintgeorgecopticchurch.org

- Built a responsive church website serving a congregation of 300+ families, with 18 public routes and approximately 70 hosted documents
- Developed a reusable component architecture on the Next.js App Router with responsive navigation, interactive accordions and carousels, statically generated pages, and SEO metadata
- Integrated live Google Docs and Slides schedules, YouTube content, Google Maps, online donations, appointment booking, and Vercel Web Analytics
- Managed content planning, UI design, testing, deployment, and ongoing maintenance

EXPERIENCE

DataAnnotation

May 2026 - Present

Freelance Contributor

- Evaluate AI model responses for accuracy, reasoning quality, and instruction following, providing detailed assessments to support model training
- Compare model outputs and write prompts to assess specific capabilities

SKILLS

Languages: Python, C++, Java, TypeScript, JavaScript, HTML/CSS

Libraries and frameworks: PyTorch, NumPy, pandas, xarray, React, Next.js, FastAPI, Tailwind CSS

Tools and platforms: Git, AWS S3, PostgreSQL, ChromaDB, Vercel, Railway