Adrian Cosentino

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Education

University of Central Florida | GPA : 3.5 Orlando, FL

B.S. in Computer Science | Dean's List (2022 - 2025) 08/22 – 08/25

Experience

Software Engineering Intern Lake Mary, FL

Vesta Teleradiology 04/25 – 08/25

- Collaborated with IT team using Agile Scrum practices to refactor legacy data pipeline by migrating to Amazon S3 and deploying Java-based ETL microservices on AWS Fargate, reducing retrieval and processing latency by 36%.
- Built Docker containerized FastAPI services with Python to parse radiology reports for real-time metric analysis, while integrating CI/CD workflows to streamline deployment and improve workflow efficiency for 40+ users.
- Developed RESTful APIs to synchronize licensing platform with existing JavaScript-based dashboard, enabling real-time ticket status updates, editing, and role-based visibility supporting 1,000+ events daily.

Projects

RadMapping+ | github.com/acozy03/radmappingplus 04/25 – 07/25

- Designed a centralized radiologist dashboard and management platform using JavaScript with HTML, CSS, Jinja and Flask to streamline operations and automate radiologist RVU calculations of over 50 doctors using Python.
- Implemented Google OAuth with role-based access control and ensured HIPAA compliance through field-level SHA-256 hashing and audit logging, supporting 24/7 application uptime and usage across 5 teams.
- Engineered an AI-powered assistant using Retrieval-Augmented Generation (RAG) with OpenAI and LlamaIndex to translate natural language into complex SQL queries, enabling accurate data retrieval for 200+ daily requests.

ILR Classifier using Machine Learning | github.com/acozy03/ilr-predictor 01/25 – 07/25

- Recognized by the NSA and DLIFLC for streamlining DLPT exam creation via automated ILR-level classification.
- Constructed a full-stack deep learning prediction system with Tensorflow, Python and Javascript, including authentication, user history, export options, and multilingual support (4 native, 100+ via translation).
- Leveraged XLM-Roberta (HuggingFace) for native, deep-learning predictions with minimal latency, with M2M100 as a fallback, achieving up to 95% accuracy within one ILR level on translated text.
- Logs 90+ user queries daily to a PostgreSQL instance for analysis featuring linguistic metric extraction via spaCy.

Personal Portfolio | adriancosentino.com 10/24 – 01/25

- Created a responsive web portfolio using React, TypeScript, and Next.js to showcase machine learning, full-stack, and game development experiences, featuring an animated hero section and structured personal overview.
- Managed React hooks and Node.js API for state management, side effects, and contact form handling using Resend, ensuring scalability for future projects with support for mobile and 200+ visitors monthly.

UCF C3 Website | cs.ucf.edu/CyberCompetitionTeam 09/24 – 12/24

- Lead of quality assurance for UCF C3's official website built with React, Typescript, MongoDB and Next.js.
- Developed comprehensive manual and automated test plans, leveraging Jest to identify and report more than 21 bugs, performance issues, and UI/UX improvements across both mobile and web while adhering to client requests.

Key Technologies

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

Frameworks / Libraries: React, Next.js, Flask, TensorFlow, scikit-learn, LlamaIndex, TailwindCSS, FastAPI

Databases and ORMs: MySQL, PostgreSQL, MongoDB, Supabase, SQLite, Prisma, Redis

Tools and Cloud: Git, Docker, Bash, Linux, Cuda, GCP, AWS

Middleware: REST APIs, GraphQL, WebSockets, JWT, OAuth2, Webpack, Nginx