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
- Partnered with IT team to re-factor file & data storage system, migrating to Google Cloud Storage and deploying secure microservices on Cloud Run, while implementing formatted logging to enhance operational visibility.
- Built Docker containerized FastAPI services with Python (pandas, NumPy, regex) for parsing radiology reports, real-time metrics aggregation, and data validation, improving workflow efficiency for 30+ users.
- Championed agile scrum practices by conducting presentations and standups to onboard non-technical teams on new integrations, including new CI/CD data ingestion from PACS system into PowerBI reports via external API.

Projects

RadMapping+ | github.com/acozy03/radmappingplus 04/25 – 06/25
- Designed a centralized radiologist dashboard and management platform using JavaScript with HTML, CSS, Jinja and Flask to streamline operations and automate doctor RVU calculations 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 usage across five teams.
- Engineered an AI-powered assistant that uses a Retrieval-Augmented Generation system with OpenAI and LlamaIndex to convert natural language queries into complex SQL statements for data retrieval and quick insights.

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.
- Architected a full-stack prediction system with JavaScript, Python and TensorFlow, 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.
- Logged user queries to a PostgreSQL database for future fine-tuning featuring linguistic metric extraction via spaCy.

Personal Portfolio | adriancosentino.com 10/24 – 01/25
- Developed an interactive web portfolio with React, TypeScript, and Next.js to display a range of web, game, and machine learning projects as well as a personal outline and hero section.
- Managed React hooks and Node.js API for state management, side effects, and contact form handling using Resend, and ensuring scalability for future projects and site improvements with modular design pattern.

UCF C3 Website | cs.ucf.edu/CyberCompetitionTeam 09/24 – 12/24
- Led quality assurance for UCF C3's official website hosted on UCF servers and built with React and Typescript.
- Developed comprehensive manual and automated test plans, leveraging Jest to identify and report more than 21 bugs, performance issues, and UI/UX improvements across 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