

Adrian Cosentino

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KEY TECHNOLOGIES

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

Frameworks / Libraries: React, Angular, Next.js, .NET, Flask, TensorFlow, PyTorch, scikit-learn, LlamaIndex

Databases & ORMs: MySQL, PostgreSQL, MongoDB, Firebase, Supabase, SQLite, Prisma, Redis

Tools & DevOps: Git, Docker, Kubernetes, Bash, Linux, Cuda

Cloud & Hosting: Google Cloud Platform, AWS, Azure, Vercel, Netlify, Heroku, Render

Other Technologies: REST APIs, GraphQL, WebSockets, JWT, OAuth2, Webpack, Nginx, Pandas, NumPy

EDUCATION

University of Central Florida

Orlando, FL

B.S. In Computer Science - Dean's List : 2022, 2023, 2024, 2025

08/22 - 07/25

- Relevant Coursework : Data Structures and Algorithms, Computer Architecture, Database Systems, Security in Computing, Competitive Programming, Computation Theory, Linear Algebra, Machine Learning

PROJECTS

ILR Predictor using Machine Learning for NSA | github.com/acozy03/ilr-classifier

01/25 - 07/25

- Built a **full-stack ILR level prediction system** using **Python, FastAPI, Docker, and TensorFlow**, enabling scalable assessment of language proficiency from multilingual text inputs for the **DLIFLC and NSA**
- Engineered a two-stage pipeline: rule-based linguistic feature extraction and sentence chunking via **spaCy, Stanza, and syntactic tree parsing**; followed by a **TensorFlow meta-classifier** trained on 11 complexity dimensions
- Integrated **XLM-Roberta via HuggingFace Transformers** for multilingual embedding and semantic consistency checks across translations (e.g. Korean, Arabic, Spanish), with inference optimized via **ONNX**

RadMapping+ | github.com/acozy03/radmappingplus

04/25 - 06/25

- Developed a centralized full-stack **radiologist scheduling and credentialing platform** using **Flask, Supabase, and Python**, streamlining operations for radiology partners in need of a system refactor
- Implemented secure **Google OAuth-based user authentication** with role-based access control; enforced **HIPAA compliance** through selective field-level **SHA-256 hashing and audit logging**
- Automated pipelines to calculate **doctor RVUs** using custom time-aware shift parsing with pandas, optimizing compensation workflows; containerized via **Docker** and styled with **TailwindCSS, JavaScript, and Jinja2**

Personal Portfolio | adriancosentino.com

10/24 - 1/25

- Designed a visually appealing and modern portfolio using **React and Tailwind CSS**, to showcase my projects and background in **web, game and software development, machine learning and automation**
- Leveraged **React hooks** and **Node.js API** for managing state, side-effects, and lifecycle events to keep the application logic clean and functional, as well as handling the contact form

UCF C3 Website | cs.ucf.edu/CyberCompetitionTeam

09/24 - 12/24

- **Quality Assurance** head during the development of C3's official UCF website
- Designed and executed comprehensive **manual and automated test plans** using Jest, identifying and documenting over **21 bugs, performance issues and potential UX improvements** across mobile and desktop

EXPERIENCE

Software Engineer Intern

Lake Mary, FL

Vesta Teleradiology

04/25 - 08/25

- Engineered and deployed a full-stack internal platform leveraging **Flask, spaCy, NumPy and Python**, enabling automatic parsing of radiology reports, real-time metrics aggregation, and comprehensive data validation, boosting operational efficiency by **41%** across core workflows for **20+ users**
- Migrated fragmented data pipelines from multi-tab Google Sheets to a structured, RLS secure **Google Cloud SQL instance**, and collaborated with cross-functional teams to deploy **RESTful APIs** for synchronous data access, ensuring seamless integration with existing tools and reducing data retrieval latency by **45%**
- Architected intelligent query-handling system by integrating **LlamaIndex and OpenAI**, enabling **semantic natural language querying** for internal data with an average of **100 queries a day**; optimized response formatting and routed results directly into the company's internal dashboard, ensuring **HIPAA compliance** by self-hosting and routing connection through **company firewall**