

Adrian Osorio Blanchard

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EDUCATION

University of Central Florida

Bachelor of Science in Computer Science

GPA: 3.41

Orlando, FL

Expected: Fall 2026

WORK EXPERIENCE

U.N.A.R.Y Lab

Undergraduate Research Assistant

Orlando, FL

August 2024 - Present

- Developing a unary brain-computer interface using PyTorch and Python in a team of 8, guided by a PhD professor with multiple potential research publications.
- Designing a processing pipeline that links a custom LLM with LangChain to classify EEG signals.
- Evaluating different algorithms to denoise EEG signals, such as FFT, PCA and wavelet transform.
- Conducting and writing unit tests on different LLMs to verify classification of EEG's.

PROJECTS

BCI | Brain Computer Interface

Fall 2024

- Built a custom data processing pipeline that classifies EEG signals with Python and LangChain.
- Collaborated with 8 team members, to design, test and optimize the pipeline for scalability.
- Performed unit testing to ensure the framework's classification accuracy and readability.

SpoilerAlert | Full-stack web extension

Fall 2024

- Created a MongoDB database and API to retrieve 600,000+ movies, to block movie spoilers.
- Established a NodeJS server to handle up to 10,000 requests daily managing movie data.
- Presented SpoilerAlert to a judge panel, showcasing a live demonstration of the project.

Kanto Pokédex | Full-stack web application

Spring 2024

- Developed RESTful APIs with Spring Boot, Maven, and Java; wrote unit and integration tests.
- Modeled Pokémon data using object-oriented principles and managed data storage with MongoDB.
- Implemented an interactive front-end using React, Bootstrap, and CSS, resulting in a user-friendly UI.

EXTRACURRICULARS

KnightHacks At UCF | Operations team

August 2023 - Present

- Organizing club meetings for over 1,000 members with interactive workshops.
- Promoting the club during tabling events to help recruit new members by engaging with students
- Assisting with photography during events and workshops to document member's

CERTIFICATIONS

AWS Academy

Cloud Security Foundations | Cloud Foundations

Fall 2024

SKILLS

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

Frameworks: Spring Boot, React, Bootstrap, PyTorch, NodeJS, TensorFlow

Relevant coursework: Computer Science I, Computer Science II, Object Oriented Programming

LLMS | AI: Llama 3.1, Llama 2, GPT-4, GPT-3.5 Turbo, LangChain

Databases: MongoDB

Tools: Anaconda, Git, Android Studio, Blender, VS Code