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EDUCATION

University of Central Florida | College of Engineering and Computer Science
Bachelor of Science in Information Technology

Orlando, Florida
Summer 2025

- Relevant Coursework:** Object Oriented Programming, Numerical Calculus, Matrix and Linear Algebra, Data Structures and Algorithms, Statistics, Operating System, Enterprise Computing, Databases
- Honors:** 2x President’s Honor Roll, 2x Dean’s List and Vice-President of Italian Society Club
- Certificates:** Introduction to Generative AI Learning Path by **Google**, AI Developer from **IBM**, **TestOut** IT Fundamentals Pro, AI Engineering from **IBM**

PROFESSIONAL EXPERIENCE

Florida Solar Energy Center
Undergraduate Research Assistant - Data Scientist

Cocoa, Florida
October 2022 – July 2023

- Supported comprehensive data processing through the integration of statistical analysis and **machine learning algorithms**.
- Analyzed performance metrics of solar panels under various environmental conditions using **predictive modeling** and **big data analytics**.
- Collected and managed extensive datasets using advanced **data mining techniques** and **feature engineering**.
- Developed and implemented automated scripts for efficient **time series analysis** and **model optimization**.

PwC
Data & Analytics / ML Ops & AI Ops

Milan, Italy
May 2022 – July 2022

- Contributed to back-end data modeling on the Palantir Foundry platform using **deep learning** and **neural networks**.
- Utilized Spark Python API to develop scalable and efficient data structures for a leading Italian bank, enhancing **data flow** and **cloud computing for AI**.
- Specialized in **database management** and **data warehousing** using Oracle and Microsoft SQL Server.

PROJECTS

3-tier Enterprise System | Full-stack Development

- A servlet/JSP based **multi-tiered enterprise application** using a **Tomcat** container that allows clients, accountants and root-level users to execute **SQL queries** and updates with specific **business logic** implementation.

Soccer Prediction Model | Machine Learning

- This project involves **scraping data**, **processing the data**, and **building machine learning models** to **predict the standings** for the 2024-2025 Serie-A season.

Concrete Crack Detector | Deep Learning

- Developed a **Flask-based** web app for **detecting structural anomalies** using **deep learning**, ensuring quality and reliability in reporting.

TECHNOLOGIES

- Back End Languages** | Java, Python, PySpark, JavaScript, C++, Go
- Python Libraries** | TensorFlow, PyTorch, Keras, scikit-learn, Hugging Face, matplotlib, NumPy, Pandas
- Databases** | MySQL, PostgreSQL, MongoDB
- Cloud** | AWS, Azure, IBM Watson
- Web Frameworks** | Django, Flask, Spring Boot, Express.js