Jose Suárez Ares
Software Engineer | Data & Machine Learning | Python | Cloud
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Experience

TELEFÓNICA
Madrid, Spain
Data Science and Cybersecurity Intern
June, 2025 – December, 2025

- Designed and automated scalable data processing pipelines to centralize multiple data resources into a unified system and implementation of models for comprehensive analysis.
- Implementation and automation of data pipelines for security sources (SIEM, IDS/IPS, logs), reducing processing times by 30%.
- Building dashboards and advanced analytics to visualize risk KPIs, attack patterns, and indicators of compromise, improving SOC decision-making.
- Using Python, PHP, cloud-based tools and data processing frameworks.

Skills

Languages: Python, JavaScript, PHP, R
ML/Data: TensorFlow, Keras, Scikit-learn, SciPy, Spark, Pandas, NumPy
Cloud/Tools: AWS, Azure, Docker, Git, Linux, Power BI, REST APIs
Databases: MongoDB, SQL (PostgreSQL, MySQL, DuckDB)

Education

Immune Technology Institute - Software Engineering
Madrid, ES
Software Engineering. GPA: 9.3/10
Thesis: Fintra - Quantitative Finance Application
Notable awards: Best Capstone Project & Best Entrepreneurship Project

BME - Professional Analysis and Trading, Financial Market Consulting
Madrid, ES
European Financial Advisor (EFA) Certification. GPA: 4.8
September, 2020 – May 2021

Projects

VisualQuants - ML-Based Multi-Asset Predictive Models

Design and implementation of advanced machine learning systems for forecasting stocks, ETFs, commodities, and cryptocurrencies.

- Designed and evaluated predictive models using time-series data, applying performance metrics for model comparison.
- Development of end-to-end pipelines: data ingestion, feature engineering, training, and deployment.
- Application of LSTMs, attention mechanisms, and ensemble models for time series.
- Quantitative approach: volatility modeling, risk metrics, and return optimization.
- Construction of reproducible experiments and automation of workflows using real market data.

Commercy – Business Management Platform (Full-Stack Web Application)

GitHub: w0lfpy/Commercy
Platform for managing businesses and their web presence, including listings, content, and user interactions.

- Developed a full-stack platform using Node.js, Express, MongoDB, and Next.js for managing businesses and websites.
- Designed and implemented a RESTful API with authentication (JWT) and role-based access control (user/admin).
- Built scalable backend architecture with modular controllers, middleware, and data models, including file uploads and review systems.
- Implemented advanced features such as filtering, scoring systems, and API documentation with Swagger.

SingLeng – Real-Time Sign Language Recognition (Computer Vision)

GitHub: w0lfpy/SingLeng
A tool developed for sign language communication and transcription.

- Developed a real-time sign language recognition system using Python, OpenCV, and MediaPipe.
- Implemented hand tracking by extracting 21 landmarks and designing gesture classification logic.
- Built a real-time pipeline for gesture detection and text transcription via webcam input.
- Processed and utilized Sign Language MNIST dataset for model development and validation.

MadridSubway – Analysis of Transportation Networks

GitHub: w0lfpy/MadridSubway
Data project focused on modeling and visualizing the Madrid metro network.

- Modeled the Madrid subway network as a graph structure, representing stations as nodes and connections as weighted edges.
- Implemented Dijkstra's algorithm to compute shortest paths between stations based on distance.
- Developed an interactive web application using Streamlit for route calculation and visualization.
- Built data processing pipelines from CSV datasets and integrated map-based visualization of optimal routes.

Certifications

AWS Certified Cloud Practitioner
Exp: August 2024

AWS Certified Solutions Architect - Associate
Exp: August 2024

Languages: Spanish (Native), English (C1)