

Walter J. Troiani Vargas

Computer & Data Scientist

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EDUCATION

Polytechnical University of Catalonia (UPC)

BSc in Computer Science

Barcelona, Spain

September 2020 – June 2024

Polytechnical University of Catalonia (UPC)

MSc in Data Science

Barcelona, Spain

September 2024 – July 2026 (Expected)

EXPERIENCE

Data Scientist

July 2023 - July 2024

MANGO

Barcelona, Spain

- Developed an end-to-end LLM document translation application gathering requirements with the translation team on a weekly basis, reducing costs by €30K in the first month
- Created REST endpoints using Dockerized Lambda's, API Gateway, and S3 for a critical size curve prediction model, cutting deployment time by 40%
- Implemented a recommender system for automatic product descriptions using Siamese networks and the FashionCLIP model
- Built a Streamlit dashboard with explainable-AI (SHAP) and KPI visualization to enhance business decision-making
- Authored comprehensive knowledge-transfer and API documentation using OpenAPI, streamlining project onboarding.
- Provisioned AWS services with Terraform through Jenkins CI/CD pipelines and BitBucket webhooks, adhering strictly to DevOps and MLOps methodologies.
- Led migrations for Databricks, Airflow, and various Python package versions on established, high-impact projects.

SIDE-CAREER

External relations Manager

October 2022 - Now

FibVisiona

Barcelona, Spain

- Initiated outreach with over 50+ leading tech companies such as Mango, CaixaBank, HP, Dynatrace, Glovo...
- Authored a Battle Pass system to gamify the fair, enhancing user retention and engagement
- Successfully connected 1000+ students with tech industry opportunities
- Oversaw and managed external relations team of 3 members.

Undergraduate Hardware Teacher

October 2021 - June 2023

UPC

Barcelona, Spain

- High Success Rate: Achieved a 98%+ pass rate among students
- Extensive Experience: Taught over 100 students and conducted classes with over 40 students

CERTIFICATIONS & LICENSES

AWS Certified Cloud Practitioner

(Expected October 2024)

Stanford Machine Learning Specialization

2023

DGT Driving License

2024

TECHNICAL SKILLS

Languages: *Python, C, C++, Java, SQL, JavaScript, HTML/CSS, R, Haskell, Prolog, Kotlin, Go, Swift, Groovy, x86, CUDA*
Developer Tools: *Git, JIRA, Jenkins, Docker, Kubernetes, Airflow, AWS, Terraform, VS Code, Postman, Jupyter Notebooks*
Frameworks: *Streamlit, Apache Spark, PySpark, PyTorch, Tensorflow, OpenMP, OpenGL, GLSL, WebGPU, OpenCL, LLVM IR, MLIR, Clang, MongoDB...*

LANGUAGES

Spanish: Native

Catalan: Native

English: Advanced (198 C1 Cambridge)

Italian: Intermediate (A2)

German: Starter (A1 Goethe-Institut)

PROJECTS

ClangIR - LLVM OpenSource contribs. (Thesis):
ClangIR public repository

ZeOS Linux Kernel: ZeOS

BeerLogic: Refill forecasting app for Estrella Damm:
BeerLogic

The Trojan Programming Language: Trojan