Francisco Javier Martínez Martínez

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Computer Engineer specialized in Information Technologies. Focused on backend and cybersecurity: designing APIs and services in Python (Flask), building CI/CD with GitHub/GitLab and Jenkins, and deploying with Docker/Kubernetes. Experience in IAM (Keycloak/XACML) and EU/national R&D projects; currently starting a Master's in Cybersecurity.

Skills

- **Technical**: Python (Flask, FastAPI, SQLAlchemy, PyTest) · Java · OpenAPI (Swagger) · Docker/Kubernetes · NGINX/Traefik · CI/CD (Git, GitHub/GitLab, Jenkins, Groovy, Bash) · Keycloak/XACML · SQL (PostgreSQL) · MongoDB · Elasticsearch · InfluxDB · Postman/Locust/k6 · Hyperledger Fabric (REST APIs and smart contracts) · JavaScript (Vue.js) · Node-RED · Go · FIWARE (Orion-LD, NGSI-LD/NGSIv2, Cygnus) · MQTT/LoRaWAN
- **Soft skills**: cross-team collaboration · ownership (self-management) · attention to detail · continuous learning
- **Languages**: Spanish (native) · English (B2, Cambridge)

Work Experience

Odin Solutions   Murcia, Spain
Junior Researcher   February 2023 – Present

- **PAP backend (cloud)**: designed and implemented a **Policy Administration Point** (**PAP**) from scratch, integrating **XACML** with **Flask** (**Python**), containerized with **Docker** (EU project *MASTERPIECE*)
- **NGSI-LD/NGSIv2 ingestion and API**: built from scratch an ingestion service for **Orion-LD** (**MongoDB**) with persistence in **Elasticsearch**/**InfluxDB,** and implemented an **API** to retrieve, transform, and expose data in **NGSI-LD** and **NGSIv2** (EU project *MASTERPIECE*)
- **MQTT LoRaWAN agent**: developed a **Python** (**Docker**) agent that decodes and normalizes device data to **NGSI-LD**/**NGSIv2** for publication in Orion-LD; **~46% lower** average resource consumption than comparable open source agents
- **CI/CD & IAM**: managed **Git** repositories and workflows (**GitHub/GitLab**), designed and maintained **Jenkins** pipelines (**Groovy**), wrote **Bash** scripts; administered **Keycloak**
- **R&D projects (EU and national)**: implemented and maintained **backend APIs** and **services** on **Docker**/**Kubernetes** in **MASTERPIECE**, **6G-PATH**, **UniMaaS**, **NINEMO**, **MAS4Care**, **EDS4Agro**
- **Internal systems**: administered and maintained **Overleaf**, **DokuWiki** and **ChartMuseum** (**Helm**) for documentation and team collaboration

Education

University of Murcia   Murcia, Spain
BSc in Computer Engineering, Information Technologies track   July 2024
Average grade: 7.24/10
Awarded "Matrícula de Honor" (highest grade) in Distributed Systems