Software Engineer

Senior Software Engineer with over 8 years of experience in developing scalable cloud-native solutions. Specialized in distributed architectures, microservices, and full-stack development. Passionate about automation and open-source technologies.

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PROFESSIONAL EXPERIENCE

Senior Software Engineer
March 2022 - Present
Poste Italiane S.p.A.

NuovaAreaComunicazione
Designed and developed a scalable cloud-native platform for customer communications, reducing massive delivery times by 70% (from over a week to less than a day) for 40M+ users.
Improved customer experience by enabling faster access and efficient search of communications.
Technologies:
- **Python** for AWS Lambda; **Java (Springboot)** for microservices running on **OCP** Cluster; **GoLang** SMPT microservice running on **AWS ECS**; **OpenSearch** as search engine where to ingest and search the communication; **AWS SQS and SNS** asynchronous components communication

SmartCatalog
Designed a web platform to visually manage Poste's commercial offerings, structured as a graph of nested offers and products.
Enabled internal teams to explore and configure complex product hierarchies more intuitively, improving efficiency and reducing errors.
Technologies:
- **Javascript + Typescript** (SvelteKit v4 + Tailwind) for the UI.

DataProducts
Developed a data pipeline to make customer interaction data (e.g. product subscriptions, post office usage) easily available to business and analytics teams.
Used CosmosDB with CDC and EventHub to stream events processed by PySpark notebooks on Azure Databricks, organizing data into Bronze, Silver, and Gold layers with Delta Lake.
Technologies:
- **Azure Databricks, PySpark, Delta Lake, EventHub**

Software and Data Engineer
April 2020 - March 2022
Enel Global Services S.R.L.

Enel X IoT Devices Platform
Developed microservices for the Enel X IoT platform, enabling device management and data processing.
Used modern async communication and cloud-native patterns to ensure scalability and maintainability.
Technologies:
- **Python (FastAPI + Beanie); MongoDB; Kubernetes; gRPC; Kafka**

Machine Learning Factory
Developed an internal ML platform on AWS to streamline data preparation and model training workflows for data scientists.
The platform standardized and automated critical steps—such as preprocessing, orchestration, and model deployment—enabling teams to accelerate prototyping and scale productivity across the organization.
Technologies:
- **AWS Stepfunctions, Lambda, SageMaker.**

Common Data Catalog
Built and maintained a corporate catalog of AI models to support discoverability and reuse across teams.
Technologies:
- **Javascript (Angular 9); Java (WildFly)**

Software Engineer
April 2017 - April 2020
Accenture Technology Solutions S.R.L.

AVS – Accenture Video Solution
Contributed to the development of AVS, Accenture's streaming platform offered to enterprise clients.
Designed and maintained a Node.js middleware layer using Express.js, which orchestrated backend microservices and simplified API integration for frontend applications.
This abstraction layer improved scalability and reduced coupling between clients and backend systems
Technologies:
- **Javascript + Typescript (NodeJS + Express.JS), Chai, Mocha**

CloudNative Solutions
A series of PoC to build application on AWS
Technologies:
- **Jenkins; AWS SAM; AWS Cloudformation; Lambda (NodeJS); API Gateway; DynamoDB**

PERSONAL PROJECTS

Dwelly
Co-founded and actively develop Dwelly, a platform designed for condominium management.
It provides administrators with a management dashboard to handle buildings, residents, payments, and communications.
Residents can use a dedicated mobile app to receive messages, submit reports, and pay service fees.
I focus on the web application and infrastructure layer, ensuring scalability and maintainability.
Technologies:
- **Javascript + Typescript (SvelteKit v4 + Tailwind); Kubernetes on OVH; Jenkins**

OSS
I actively support and contribute to the open-source community.
I frequently rely on OSS libraries in my work and, whenever possible, give back by reporting issues, improving documentation, or submitting patches and features.

EDUCATION
CdL Ingegneria Informatica e Biomedica
UMG Catanzaro, CZ
2012 - 2016

CERTIFICATIONS
AWS Certified Developer - Associate
2019
Certified SAFe 4 Practitioner
2018

LANGUAGES
Italiano/Native
English/Fluency

TECHNICAL SKILLS
LANGUAGES
Python · Java · Javascript · Typescript · Go
FRONTEND
SvelteKit · React · Angular · Tailwind CSS
BACKEND
FastAPI · Spring Boot · Express.js · Fastify · Gingonic
CLOUD PLATFORMS
AWS · Azure
DEVOPS & INFRASTRUCTURE
Docker · Kubernetes · OpenShift · Jenkins
TOOLS & COLLABORATION
Git · GitHub · Bitbucket · Gitlab
DATABASES & SEARCH ENGINES
MongoDB · DynamoDB · CosmosDB · OpenSearch

HOBBIES
Home automation (Home Assistant, DIY projects) · Travel and cultural exploration · Strategic video games