



Giuseppe Sorgentone

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Gender: Male | Date of birth: Jan 5 1999 | Nationality: Italy

WORK EXPERIENCE

[05/2026 - present]

Backend & Infrastructure Engineer

Fanex - MILANO (MI) Italy

Company sector: Finance

Business or sector: computer science, data processing and acquisition

Main activities and responsibilities: - Design, build and maintain backend services and production infrastructure using Node.js, TypeScript, PostgreSQL, Redis, Kubernetes and Vercel.

- Maintain the reliability, performance and security of production systems through monitoring, automated testing and CI/CD pipelines.

- Design data models, APIs and service integrations using PostgreSQL, Redis and external platforms.

- Collaborate directly with product team across requirements analysis, technical design, implementation, deployment and production support.

Acquired skills and achieved objectives: PostgreSQL, Blockchain, Next.js, Redis, IT Infrastructure Management, TypeScript, Java, Python, Full-Stack Development

[04/2024 - 04/2026]

IT Consultant

Technology Reply - BOLOGNA (BO) Italy

Company sector: Engineering and design

Business or sector: computer science, data processing and acquisition

Main activities and responsibilities: - Delivered backend and data engineering solutions for enterprise banking and financial clients, including UniCredit and Poste Italiane.

- Replatformed a liquidity forecasting system from Java to PySpark on Azure Databricks, implementing data processing for financial positions, market scenarios and ECB rate inputs.

- Built and maintained data workflows and software features for a Basel IV collateral management platform on Palantir Foundry.

- Designed and implemented integrations with core banking systems using REST APIs, SOAP services, scheduled batch processes and cloud components, translating functional requirements into technical solutions.

Acquired skills and achieved objectives: Java, IT Infrastructure Management, Azure Databricks, Python, Apache Spark, Quarkus, Palantir, SQL, PySpark, Oracle DB

[09/2023 - 02/2024]

AI and Python Developer

TimeLapseLab - MANTOVA (MN) Italy

Company sector: Engineering and design

Business or sector: computer science, data processing and acquisition

Main activities and responsibilities: - Built a web platform for object detection, re-identification, alerting and data collection on construction sites using deep learning models.

- Trained and fine-tuned a YOLO-based object detection model on a custom dataset of construction-site images.

- Built an end-to-end construction progress monitoring system using Node.js and Three.js to compare site imagery with BIM data.

Acquired skills and achieved objectives: Python, Deep Learning, BIM, computer vision, Node.js, Three.js

EDUCATION AND TRAINING

[2021 - 2024]

Computer Engineering

Alma Mater Studiorum - Università di Bologna

Town: BOLOGNA

2nd level degree in Computer engineering

Final degree mark: 107/110

EQF level: 7

NQF level: 2nd cycle degree/Master of Science (2 years)

Dissertation/thesis title: Development of applications for detection, re-identification and progress monitoring on construction sites using deep learning

[2018 - 2021]

Computer Engineering

Alma Mater Studiorum - Università di Bologna

Town: BOLOGNA

1st level degree in Information technology

Final degree mark: 97/110

EQF level: 6

NQF level: 1st cycle degree/Bachelor (3 years)

Dissertation/thesis title: Simulation of Alerting Applications in Vehicular Ad Hoc Networks using Veins Framework

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s)

English

LISTENING: C1 **READING:** C1 **WRITING:** C1

SPOKEN INTERACTION: C1 **SPOKEN PRODUCTION:** C1

Spanish

LISTENING: A2 **READING:** A2 **WRITING:** A2

SPOKEN INTERACTION: A2 **SPOKEN PRODUCTION:** A2

*Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference for Languages*

DIGITAL COMPETENCES

SELF-ASSESSMENT				
INFORMATION AND DATA LITERACY	COMMUNICATION AND COLLABORATION	DIGITAL CONTENT CREATION	SAFETY	PROBLEM SOLVING
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

Basic digital competence:

COMPUTER PROGRAMMING

PySpark (Highly Specialised) , Quarkus (Advanced) | **Markup languages:** CSS (Advanced) , HTML (Advanced) | **Mobile Application Development:** Mobile Developer (Advanced) | **Programming languages:** Bash (Advanced) , C (Advanced) , C++ (Intermediate) , Go (Advanced) , Java (Highly Specialised) , JavaScript (Highly Specialised) , Python (Highly Specialised) , SQL (Highly Specialised) | **Web Programming:** Next.js (Highly Specialised)

SYSTEMS AND NETWORKS MANAGEMENT

Network architecture: (Advanced) | **Operating systems:** Linux (Highly Specialised)

DATA MANAGEMENT

Big Data: Apache Spark (Highly Specialised) , Azure Databricks (Advanced) , Palantir Foundry (Highly Specialised) | **DBMS:** (Advanced) , PostgreSQL (Highly Specialised) , Redis (Highly Specialised)

DRIVING LICENCE

Driving licence category B