



Antonio Saolo

CONTACT ME

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ABOUT ME

I am a software engineer passionate about innovation and system optimization. With experience in backend development, cloud, and IoT infrastructures, I design and implement advanced solutions for energy system monitoring and control. My expertise includes predictive models, genetic algorithms, and scalable architectures, integrating cloud and DevOps technologies to enhance efficiency and reliability.

Beyond software development, managing a business in the mechatronics sector improved my organizational and strategic skills, which I apply to optimize development processes and team management. Driven by technological curiosity and a results-oriented mindset, I embrace new challenges with initiative and a continuous drive for professional growth.

EDUCATION

Master in Web Programming and Development

June 2024 • Università Niccolò Cusano

Grade: 110 cum laude/110

Bachelor's Degree in Computer Engineering

June 2022 • Università Mercatorum

Grade: 88/110

High school diploma in accounting and business administration

July 2012 • Istituto Tecnico Commerciale Paritario "Giacomo Leopardi"

Grade: 70/100

EXPERIENCE

Senior Backend Developer

September 2024 - Present • Idea75, Bari (BA)

- Design and development of software solutions for monitoring and intelligent control of energy plants, including requirement definition and architecture.
- Implementation of predictive models and genetic algorithms for operational efficiency optimization.
- Coordination of frontend and backend activities to ensure maintainability and high code quality.
- Team management through task planning, code review, and best practice definition.
- Design and implementation of DevOps workflows, focusing on automated testing, CI/CD, build, and cloud deployment.
- Integration of field devices with the cloud, ensuring reliable data ingestion and system stability.
- Extensive use of Kubernetes, Docker, and GitLab CI/CD for application orchestration and management.

Backend Developer

March 2024 - September 2024 • *Idea75, Bari (BA)*

- Development and optimization of software solutions for monitoring and controlling energy plants, with a focus on economic and environmental impact reduction.
- Asset trend prediction using genetic algorithms to enhance operational efficiency.
- Integration of field devices for remote management, ensuring seamless communication between edge and cloud systems.
- Backend application development and maintenance using Python and Node.js, with data management in MySQL, PostgreSQL, InfluxDB, and MongoDB.
- Creation of dynamic and interactive user interfaces with React.
- Utilization of AWS DynamoDB, Timestream, and QuickSight for data visualization and analytics.
- Deployment of containerized applications using Docker in cloud and on-premise environments.

Software Developer and Cloud Specialist

April 2022 - March 2024 • *Intelab, Rome (RM)*

- Design and implementation of monitoring and analytics pipelines for energy plants, including photovoltaics, wind farms, BESS, and EV charging stations.
- Edge-to-cloud integration for seamless data collection and processing.
- Scalable cloud architecture on AWS using IoT Core, Lambda, S3, QuickSight, and EC2.
- Database design and maintenance using MySQL, PostgreSQL, and MongoDB.
- Implementation of communication protocols with field devices using HTTP, MQTT, OPC-UA, and Modbus.

Mechatronics Business Owner

November 2017 - March 2024 • *SaoloTech - Automotive Services, Bovalino (RC)*

- Business management and expansion in the mechatronics sector, specializing in car diagnostics, repair, and customization.
- Supervision of technical and administrative operations, implementing innovative solutions for automotive services.
- Optimization of business processes to enhance operational efficiency and customer satisfaction.

Apprentice Mechatronics (Collaboration)

January 2009 - November 2017 • *Auto Officina Meccanica Saolo, Bovalino (RC)*

- Development of problem-solving skills, task organization, and workflow management.
 - Hands-on experience in vehicle diagnostics, component replacement, and preventive maintenance.
 - Refinement of manual skills and technical expertise under the guidance of senior mechanics.
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SKILLS

FRONTEND DEVELOPMENT

React

Node-Red

Javascript

HTML

CSS

BACKEND DEVELOPMENT

Python

Node.js

Bash Linux

C++

C

CLOUD

AWS IoT Core

AWS Lambda

AWS S3

AWS EC2

AWS Greengrass V1

AWS Greengrass V2

AWS Cloud Watch

AWS API Gateway

AWS EKS

AWS ECS

AWS QuickSight

AWS SQS

AWS SES

DATABASE

MySQL

MongoDB

PostgreSQL

InfluxDB

Redis

AWS RDS

AWS DynamoDB

AWS Timestream

DEVOPS

Git

Docker

RabbitMQ

Terraform

CI/CD Pipelines

Kubernetes

INDUSTRIAL PROTOCOLS

MQTT

Modbus TCP

Modbus RTU

OPC UA

HTTP REST

OPERATING SYSTEMS

Windows

Linux

IOT DEVICES

Unipi Neuron

Raspberry Pi

InHand IoT Edge Gateway

Arduino

Tera Gioe

SOFTWARE PROFICIENCY

Google Workspace

Microsoft Office Suite

LANGUAGES

Italian

English

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