



Skill

Linux 5 yrs

Bash 5 yrs

Python 4 yrs

Typescript 5 yrs

Java 2 yrs

Information

📍 Molise - Italy
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Federico Zappone

Cloud/AI Engineer

Bio

Cloud/AI Engineer with a Master's Degree in Software Systems Security. Co-founder of Just Another S.R.L and BB-SMILE S.R.L. Particular interest in Generative AI, automated trading and financial markets.

Creator of Just Another Trading System, a framework to automate trading strategies using Machine Learning and Artificial Intelligence systems.

Work Experience

Cloud and AI Engineer Storm Reply

10/2024 - NOW

- Cloud operations focused on Amazon AWS Cloud environment services;
- AI Engineer focused on Generative AI and corporate business process automatization;
- LLM model deployment and integration using both on-premise infrastructure and AWS Bedrock services (API, Flow, Guardrail etc...)

Co-founder Just Another S.R.L.

10/2022 - NOW

Just Another S.R.L. is an Italian IT company focused on finding and developing high-quality software solutions. Just Another makes its expertise available for the design and development of solutions involving innovative technologies including the use of Artificial Intelligence, Machine Learning, Blockchain and DevOps pipelines.

Co-founder and Chief Technology Officer BB-SMILE S.R.L.

04/2022 - NOW

BB-SMILE is a university startup from the University of Sapienza and the University of Molise that operates as a center of expertise on Blockchain and AI technologies by integrating the operational skills of technology partners with the research and development knowledge of academic partners.

Education

2020 - 2022

Software Systems Security

University of Molise - UNIMOL

Thesis: Neuroevolutionary trading: general methodology and its application to the cryptocurrency market.

Final grade: 110/110 cum laude with distinction.

2017 - 2020

Computer Science and Technology

University of Molise - UNIMOL

Thesis: A blockchain-based ecosystem for biomedical data management.

Final grade: 107/110.

Certifications

2024

Generative AI Certified Professional

Oracle Corporation

2022

Information Engineer

University of Molise - UNIMOL

Licensed non-registered

2022

24-CFU Teaching qualification

University of Molise - UNIMOL

Achievements

2022

CyberChallenge CTF

CyberChallenge

3rd place at University of Molise

2022

GlobalGameJam

GlobalGameJam

2nd place at University of Molise

Blockchain Developer/Data Engineer

University of Molise - UNIMOL

10/2021 - 10/2022

Winner of the research grant with the aim of designing and implementing a blockchain for food traceability.

- Development of permissioned Distributed Ledger using Hyperledger Fabric;
- Stress tests assessment on the developed platform using Hyperledger Caliper;
- Designing and generation of a dataset built for Machine Learning Classification tasks about mediterranean plants;

Blockchain/Sysadmin/Full-stack Developer

Avanguard

09/2019 - 09/2022

- Full-stack developer using MEAN stack (MongoDB, Express.js, Angular and Node.js);
- Multiple Linux servers administrator (RedHat RHEL 7/8, CentOS, Ubuntu);
- Development of permissioned and permissionless Blockchains using Hyperledger frameworks;
- Development of bash scripts for custom blockchain deployment;
- Smart contract (chaincode) development;
- REST API development to interact with the Blockchains (Node.js with Typescript).

Site for Public Administration

University of Molise - UNIMOL

03/2019 - 03/2020

Being part of the group occupied with:

- Designing the structure of the site;
- WordPress environment configuration;
- Development of the site components;
- Plugins management and security checks;
- WordPress environment performance optimization;
- New custom PHP plugin development using Machine Learning techniques.

Publications

2024

Fixing Dockerfile smells: an empirical study

Empirical Software Engineering

2022

DELTA-Distributed Elastic Log Text Analyser

4th Distributed Ledger Technology Workshop (DLT 2022) at ITASEC 2022

2022

Listening to what the system tells us: innovative auditing for distributed systems

Frontiers in Computer Science

2022

Integrating Heuristics and Learning in a Computational Architecture for Cognitive Trading

Elgar - AI and Behavioral Finance

2021

What is your Distributed (Hyper)Ledger?

Emerging Trends in Software Engineering for Blockchain
WETSEB 2021 - ICSE 2021

2020

The Genesy Model for a Blockchain-Based Fair Ecosystem of Genomic Data

Frontiers Blockchain

Professional Skills

Skills

- AI and Machine learning techniques for big data analysis (Python, Tensorflow, Keras, LLMs).
- Mastery of various GNU/Linux distributions (Arch Linux, Ubuntu, Ubuntu Server, RedHat, CentOS, etc...).
- BASH language, server machine management and scripting.
- CI/CD pipelines using Amazon AWS, Jenkins (master and slave), Docker, Groovy, Hashicorp Vault, Terraform, SonarQube etc....
- CI/CD pipelines using GitHub Actions and GitLab with Kubernetes integration.
- Kubernetes cluster management (k3s, Rancher, Traefik, Cloudflare Origin CA, Ansible).
- Scripting languages (Python, Javascript, Ruby, R and Bash POSIX).
- Web application development (NodeJs, Javascript, Typescript, HTML, CSS, SCSS, PHP, etc...).
- Web development frameworks (Angular, React (both js and Native), Vue, Ionic, etc...).
- RESTful APIs framework (FastAPI, Spring Boot, Express.js, Fastify etc...).
- Relational and non-relational databases (MySQL, PostgreSQL, MongoDB, CouchDB, SQLite, etc...).
- Event-driven programming (Socket.io).
- Software Systems Security general knowledge about methodologies (Analysis, Assessment, Threat Models etc...) and practical tools used in Bug Bounty, Penetration testing, Red teaming etc...
- Distributed Ledger Technologies and Blockchain.
- Blockchain development frameworks such as Hyperledger Fabric, Hyperledger Composer and IBM Blockchain Platform.
- Web application development via CMS (WordPress, Ghosts and creation/management of related plugins).
- Financial markets general knowledge particularly in the cryptocurrency market.
- Technical and fundamental analysis tools in the context of trading.
- Mining of cryptocurrencies and related tools (ASIC, RIG).
- Mobile application development (Hybrid and native - Ionic, Android).

Personal Projects

Just Another Trading System

Just Another Trading System provides historical and real-time financial assets data, technical analysis indicators computation, machine learning / AI-based strategies, and a simple way to create your trading strategy for both cryptocurrency and stock markets.

Crawly

Crawly is a customizable web crawler service to get information and monitor the changes on the pages using APIs.

Worky

[Click for more info](#)

Worky is a CLI tool that helps to define and load project workspaces. It can be used to load a project workspace with a single command and quickly start your work. Worky saves you from wasting time doing repetitive tasks before actually starting to work. This project can be used for every type of project or workspace, the only limitation is due to the functionality of the programs that you can run from CLI.

Pyvttt

[Click for more info](#)

The name speaks for itself: PYthon Video-to-Text Transcriber. Pyvttt is a simple CLI tool that supports the download of audio tracks from YouTube and it is able to perform the transcription and both translation and summarization using AI models.

Roundtable

[Click for more info](#)

Roundtable is a tool that simulates a roundtable discussion using AI agents. It uses different Ollama LLM models for text and code to simulate the discussion between models using AutoGen.

Crawlall

[Click for more info](#)

Crawlall is a simple crawler tool that uses Google search engine-supported features to find and collect required patterns (email, URL, phone, dates, IP address, hashtag, etc...) related to a search query.

Hopper-bacco

[Click for more info](#)

Hopper-Bacco (Oh perbacco) is a simple utility service that accepts and forwards API requests rotating both IP and User Agent to avoid bans.

Fabric Starter

Fabric Starter is an automation tool to deploy a blockchain for testing purposes using Hyperledger Fabric in minutes with a single command.

Hi-jacket

[Click for more info](#)

Hi-jacket is an automated cryptojacker that allows you to find simple XSS vulnerabilities and exploit them by loading a cryptojacking script with GPU support. This project was developed in order to find a defense against this type of attack.

Domo

[Click for more info](#)

Domo is a very simple all-in-one tool to manage IoT devices from the CLI. Domo can be very useful to create other scripts to automate the routines in the house.

Copycat

[Click for more info](#)

Copycat is a Python tool that record and replay mouse and keyboard macro using through a GUI interface.