Simone Antonio Di Mauro

Full Stack Developer · Cybersecurity

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PROFILE

Full stack developer focused on backend and application security. I build REST APIs with Spring Boot and Node.js, React and TypeScript interfaces, and the infrastructure behind them: Docker, Linux, Nginx, GitHub Actions and Cloudflare, from the data model to the production release.

EXPERIENCE

Junior Full Stack Developer & Cyber Security Trainee · Arya S.r.l., telecom & ICT services, Catania — Nov 2025 – present

- Full stack development of Orbita, the partner portal (Spring Boot and React), and of the company website aryaplus.it.
- Integrate services with the network (MikroTik, UniFi, phpIPAM) and with supplier APIs, whose OAuth tokens a Python worker renews and shares through Redis.
- Own builds and releases with Docker, Nginx and GitHub Actions: production deploys with versioning and rollback.
- Look after application security: OAuth2 and JWT authentication, input validation, anti-bot protection for forms.

Training course · Tri-Tech S.r.l. — Mar 2025 – Aug 2025

- SQL and PL/SQL on Oracle and Java, with an introduction to Spring Boot, GitLab and Kubernetes. I later studied Spring Boot on my own, up to running it in production on Orbita.

PROJECTS

Orbita — `Spring Boot 3.5, Java 24, React, TypeScript, MariaDB, Redis`

Portal for Arya's business partners: REST APIs with Spring Security, OAuth2 and JWT, JPA on MariaDB, Redis sessions, real-time updates over WebSocket, PDF, Excel and CSV generation, MikroTik, UniFi and phpIPAM integrations, React frontend with maps.

aryaplus.it — `Astro, React, TypeScript, Tailwind CSS`

Company website with seven solution areas, journeys for companies and partners, View Transitions, per-page structured data and consent-gated analytics. Includes NFC business cards that return a vCard.

Mafdet — `Python, llama.cpp, CUDA, Vulkan, Metal, Astro`

Local LLM runner that reads and reasons on the message while the user types: the wait after Enter drops from 12.2 s to 3.2 s on Qwen3-4B with a 6 GB GPU. Includes a desktop app, a terminal app, a CLI and the project website.

simonedimauro.com — `Astro, TypeScript, Cloudflare Workers, Turnstile, Resend, Vitest`

Static portfolio served by a Cloudflare Worker, with a contact API protected by payload limits, validation, a honeypot, rate limiting and server-side Turnstile verification. Separate staging environment, CSP without inline scripts, CI with tests and deploy dry runs.

PRO ORSA Futsal — `Next.js 16, Drizzle ORM, PostgreSQL, Better Auth, Vercel`

Website of a Serie C1 futsal club, with an allowlist-protected admin area.

Self-hosted tools — `Node.js, Docker Compose`

URL shortener and terminal file transfer with a two-level IP allowlist, streaming uploads, resumable downloads and SHA-256.

TECHNICAL SKILLS

Programming	Java, TypeScript, JavaScript, Python, PHP, SQL and PL/SQL, C, C++
Backend	Spring Boot (Security, Data JPA, WebSocket), Node.js, Express, REST APIs, OAuth2 and JWT
Frontend	React, Astro, Next.js, Tailwind CSS, Vite, HTML5, CSS3, Bootstrap
Databases	MariaDB, MySQL, PostgreSQL, Oracle, Redis, Drizzle ORM
DevOps & cloud	Docker and Compose, Linux, Nginx, GitHub Actions, Cloudflare Workers, Vercel, Kubernetes (basics)
Security	OWASP Top 10 (SQL injection, XSS, CSRF), password hashing, rate limiting, IP allowlists, CSP, Turnstile
Networking	MikroTik, UniFi, phpIPAM, DNS, TLS
Tools	Git, GitHub, GitLab, IntelliJ IDEA, VS Code, DBeaver, MySQL Workbench · Linux, macOS, Windows
Languages	Italian (native), English (B2)

EDUCATION

BSc in Computer Science · University of Catania — 2025 – ongoing

Technical high-school diploma in Computer Science · ITIS "E. Fermi", Giarre (Catania) **Grade 92/100** — 2019 – 2024

I authorise the processing of the personal data in this CV under Regulation (EU) 2016/679 (GDPR).