Giovanni Cappelletti

Senior Full-Stack Product Engineer

Trento, Italia (Remoto)

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Wolf of The Wall Script - Home Page | LinkedIn | GitHub

PROFESSIONAL SUMMARY

Senior Full-Stack Engineer with 10+ years of experience designing and shipping SaaS platforms end-to-end — from product spec to production deployment. Built and solely architected a recruitment-automation SaaS (talent acquisition domain), delivering scalable workflow engines, digital-signature compliance modules, and modern frontend interfaces.

Currently **my projects run on a self-hosted production grade K8s cluster** on Hetzner (Terraform-provisioned, under $100/month) powering multiple web products and two early-stage SaaS tools.

Combines **deep backend expertise** (Java, PHP, Node.js, PostgreSQL) with **modern frontend** development (JavaScript, Vue.js, HTML/CSS) and a proven ability to own the full product lifecycle — from customer research through wireframes to deployment — with minimal oversight.

Strong communicator who has **trained 1000+ of developers** at enterprise clients and coding bootcamps across Europe.

TECHNICAL SKILLS

- **Backend & Data** Java (Spring Boot, Quarkus), Node.js, PHP (Laravel), PostgreSQL, MySQL, MongoDB, Redis, Vector Databases, S3 storage (MinIO)
- **Frontend & UI** JavaScript (ES6+), Vue.js 3, Quasar Framework (SSR / SEO-oriented), HTML5, CSS3, responsive web design
- **APIs & Protocols** REST, WebSockets, API design, Web3/Solidity (experimental)
- **DevOps & Infrastructure** Kubernetes (K3s), Terraform, Docker, Git/Gitflow, Jenkins, CI/CD pipelines, Kong Gateway, Cilium, Linux environments, Shell scripting, Hetzner Cloud
- **Observability & Security** Grafana, Prometheus, Loki, Hashicorp Vault, Authentik SSO, Let's Encrypt (cert-manager), Harbor registry
- **Methodologies & Practices** TDD/BDD, Agile/Scrum, software architecture & design, AI-augmented development workflows (Claude, Copilot, N8N)

BLOG

BIO

Check out my public products, still under development

ZipOps

CodeGrader

WORK EXPERIENCE

Founder & Solo Platform Engineer

Designed, provisioned, and operate a production-grade self-hosted Kubernetes platform on Hetzner Cloud — from Terraform IaC to application layer — powering multiple public web products, a technical blog, and two SaaS projects in early stage (ZipOps, CodeGrader)

- **Architected and provisioned a full K3s cluster with Terraform** running a production-grade stack for under $100/month; Kong API gateway with rate limiting, Cilium networking, CloudNative, PostgreSQL, Longhorn storage, MinIO S3-compatible storage, Redis caching, and Hashicorp Vault for secrets management
- **Built a complete observability stack (Grafana + Prometheus + Loki)** with Telegram alerting, Harbor container registry, self-hosted Mailu email server with multi-domain DNS, and Authentik SSO protecting all services — eliminating third-party SaaS dependencies
- **Ships multiple products on the platform** Quarkus-native backend-for-frontend, Vue.js SSR public frontends (SEO-optimized), Vue.js SPA private apps, and inner microservices — with Tilt for in-cluster development and CI/CD pipelines
- **Specced, designed, and is building two product ideas end-to-end** ZipOps (automated K8s cluster self-provisioning tool in Go) and CodeGrader (AI-powered code review platform for students and teachers) — from customer research to landing pages to (ideally) implementation

Senior Full-Stack Solo Developer

Sole engineer responsible for analysis, architecture, and development of a SaaS platform for recruitment automation and document management — directly within the TA domain

- **Designed and implemented the core system architecture** focused on workflow automation for recruiting pipelines reducing resource onboarding time by 20% and freeing one full person-day per week through process automation
- **Engineered a digital-signature compliance module** enabling legally valid document signing within the platform, ensuring data security and regulatory compliance for thousands of documents processed monthly
- **Owned the full product lifecycle end-to-end** requirements gathering with stakeholders, product specification, UX decisions, implementation, testing, and deployment — operating with full autonomy and minimal process
- **Led stack modernization** by migrating legacy processes to modern, maintainable architectures, improving both developer velocity and system reliability

Lead Instructor & Mentor (Java / PHP / JS / more)

Lead instructor for intensive full-stack bootcamps across Europe (Italian & English), covering enterprise stacks (Java Spring Boot) and modern web (Laravel, Vue.js)

- **Mentored 1000+ aspiring developers** in SOLID principles, Clean Code, and architectural decision-making — translating complex technical concepts into clear, actionable guidance
- **Implemented enterprise-grade teaching workflows** rigorous code review processes and automated testing pipelines in student projects to simulate real production environments
- **Continuously updated curricula** to reflect emerging market-demanded technologies, maintaining focus on practical production scenarios and industry best practices

Consultant & Corporate Trainer
STM, Unicredit, SIA, OverNet
Feb 2018 – Jul 2020 · Milan & Remote

- **Delivered advanced TDD/BDD training in Java** for senior development teams at major enterprise clients, driving adoption of test-first engineering practices
- **Trained engineers on relational databases** (DB2, MySQL), back-end languages (C#, Java 8), and Spring Boot, facilitating internal upskilling at scale

Back-End Developer
N.A.Tour S.R.L. (ByByke)
May 2013 – Sep 2013 · Rovereto, Italy

- **Developed server-side logic for a cross-platform cycling navigation app**, working closely with the client on requirements, data-manipulation patterns, and multi-platform mobile deployment (PHP, Titanium SDK / Appcelerator)

EDU

Bachelor's Degree in Computer Science
Università degli Studi di Trento · 2009 – 2013
Focus Functional Programming, Algorithms, Software Engineering

Chief Technical Expert Diploma in Computer Science
ITI M. Buonarroti / G. Marconi · 2004 – 2009

LANG

Italian Native

English Full Professional Proficiency (written & spoken)