

Giuseppe Mancini

Full-Stack Developer | Aspiring AI Solution Architect
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Professional Profile

Results-driven Full-Stack Developer with expertise in MERN and Python/Django ecosystems. Specialized in engineering high-performance RESTful APIs and AI-integrated cloud architectures. Leveraging a Master's in International Relations to apply "Systems Thinking" to complex software challenges. Currently specializing in AI Solution Architecture (GCP), focusing on Agentic Workflows, Vector Databases (pgvector), and performance-driven cloud infrastructure to bridge the gap between robust backend engineering and autonomous AI solutions.

Technical Skills

- **Languages:** JavaScript (ES6+), TypeScript, Python, HTML5, CSS3/Sass (BEM).
- **Frontend:** React (Hooks/Context), NEXT.js, Redux, Angular, Bootstrap.
- **Backend & Cloud:** NODE.js, Express, Django (REST Framework), AWS Lambda, GCP (In training).
- **AI & Data:** pgvector (Vector Search/RAG), Gemini CLI (AI-assisted auditing & workflows), MongoDB, PostgreSQL.
- **DevOps & Tools:** Docker, Git, CI/CD Pipelines, Postman, Resend API (Transactional Email).

Core Projects and Architectural Audits

AI-Enhanced Django Portfolio | Python, Django, PostgreSQL, Resend API

- **Infrastructure Modernization:** Refactored email delivery from legacy SMTP to an API-first architecture using Resend, eliminating worker timeouts and achieving 99.9% deliverability.
- **Performance & SEO:** Engineered a custom CMS following the MVT pattern, achieving a 100/100 SEO score on Google Lighthouse via automated metadata orchestration.
- **AI-Assisted Auditing:** Utilizing Gemini CLI for automated code reviews and architectural audits to ensure scalability and adherence to Clean Code principles.

Job-Tracker Dashboard | React, Node.js, Express, MongoDB

- **Frontend Engineering:** Developed a reactive interface with React and Vite, implementing efficient global state management to monitor application trends in real-time.
- **Security Architecture:** Engineered a robust authentication system using JWT with bcrypt hashing and secure HTTP-only cookie management for production-grade security.

Meet App (PWA) | React, AWS Lambda, Serverless

- **Serverless Strategy:** Implemented a serverless architecture using AWS Lambda for OAuth2 authorization, significantly reducing infrastructure overhead and operational costs.
- **Reliability (TDD):** Adopted a Test-Driven Development approach (Jest, Cucumber, Puppeteer), ensuring 90%+ code coverage and stable deployment cycles.

Professional Experience

LG Energy Solution | Technical Support Coordination (2023 – 2024)

- **Workflow Optimization:** Managed technical escalations and service tickets, acting as a strategic bridge between field installers and the engineering department.
- **System Maintenance:** Provided technical guidance on IoT application usage and hardware installation, ensuring seamless integration of renewable energy systems.

LUDAV srl / Frantoio in Villa | Founder & Digital Lead (2019 – 2023)

- **Digital Transformation:** Architected the brand's digital presence, implementing bilingual SEO strategies and optimizing website performance to drive a 60% increase in organic traffic.
- **Operations Management:** Engineered end-to-end supply chain workflows, from quality control to international logistics and automated billing systems.

Mondimpresa | Strategic Internationalization Intern (2010)

- **Market Analysis:** Delivered strategic entry recommendations for SMEs expanding within the EU market, focusing on data-driven internationalization trends.

Core Competencies

- **Analytical Architecture:** Expert at decomposing complex requirements into scalable, innovative technical solutions.
- **Strategic Communication:** Proven ability to bridge the gap between engineering departments and business stakeholders.
- **Adaptive Growth:** Rapidly master emerging AI technologies (GCP, Agentic Workflows) and Agile methodologies.
- **Collaborative Leadership:** Driving project success through shared commitment and diverse technical perspectives.