

Doinel Atanasiu

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About me

Full-stack software engineer with 6+ years of experience delivering web applications that ship fast and scale well. I build with React.js/Next.js and Node.js, integrating AI - autonomous agents, RAG pipelines, MCP integrations - wherever it creates concrete value: cutting overhead, automating workflows, reducing cycle time. As a two-time co-founder, I think in systems and business outcomes, not just code.

When not at my desk, I compete in international hackathons to grow and experiment with cutting-edge technologies.

Skills

React.js | Next.js | Node.js | Bun | Hono | Express | TypeScript | MySQL | PostgreSQL | AI agents | MCP | Git | Docker
Gen AI prompt engineering | Infrastructure system design | Problem solving | Critical thinking | English | Italian | Romanian

Professional experience

Freelance senior software engineer

Doinel Atanasiu, Italy - January 2024 / Present (Remote)

- Designed and deployed an iterative semantic search engine for a training company, enabling staff to progressively narrow searches across their Dropbox documentation - reducing document retrieval time by 50%
- Built a privacy-compliant RAG system with local models and automatic retrieval strategy selection for a marketing agency - cutting onboarding time by 25% and enabling new hires to navigate internal documentation independently
- Developed an AI-powered WhatsApp assistant for an insurance company that handles 90% of policy-related customer inquiries autonomously - freeing ~2 hrs/day for the support team to focus on higher-value tasks

Freelance lead engineer

ReNow Energy, Italy - May 2024 / April 2026 (Remote)

- Co-designed the tech stack and system architecture with the CTO, enabling the team to execute 2 full product pivots in 3 months while maintaining code quality and long-term maintainability
- Led development of the MVP and subsequent iterations, reducing build time by 30% and improving application load speed by 40% through targeted codebase optimizations - directly improving end-user experience
- Building internal MCP servers that give platform admins a conversational AI interface to query, monitor and manage client projects - designed to eliminate manual reporting and cut admin overhead by ~3 hrs/day
- Developing autonomous AI agents to manage the full project lifecycle from intake to deal closure - targeting a 25% reduction in cycle time and freeing the team to focus on client acquisition

Co-founder & Full-stack software engineer

Animo Devs, Italy - April 2019 / June 2025 (Hybrid)

- Led end-to-end development of a web-based 3D configurator for a design and craftsmanship company, supporting 100+ bases and 300+ ornaments for lava stone tables - reducing customer purchase decision time by 20%
- Built a mobile loyalty app for a food retail client, enabling daily customer engagement tracking for the first time and driving measurable repeat visit behavior

Co-founder & Full-stack software engineer / Unreal Engine developer

Overse Tech, Italy - September 2021 / January 2025 (Hybrid)

- Developed high-fidelity architectural visualization applications in Unreal Engine - enabling clients to increase off-plan property conversion rates by ~15% and reduce end-user design decision time by ~25%
- Implemented Pixel Streaming pipelines to deliver GPU-rendered Unreal Engine immersive experiences directly in-browser - increasing service sales by 10% by removing the hardware requirements previously imposed on clients

Education

Bachelor's degree in Computer Science

Università degli studi di Perugia, Italy

Grade: 102/110

Thesis: "On the generation of front-end applications starting from the ABI of smart contracts in the MultiversX blockchain"

Projects

- **virgilio** - React.js | Hono | TypeScript | LangChain | Transformers | PostgreSQL | Turborepo
Privacy-first semantic search engine for Dropbox files using local embedding models for full data confidentiality
- **prometheus** - Next.js | TypeScript | OpenAI | AI SDK | Solidity | Turborepo
Solar virtual power plant where AI agents autonomously trade energy via blockchain, based on user's needs