Christopher Domenicano

Backend Engineer · Tech lead

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SUMMARY

Backend Engineer and Tech Lead with experience across Fortune 500 environments and fast-moving startups, former R&D backend lead. Comfortable across architectural styles, from monoliths to event-driven and serverless systems, in Java/Spring Boot and Node.js/TypeScript.

PROFESSIONAL EXPERIENCE

Contractor

Italy (Remote), August 2026 - Present

Tech Lead and Software Engineer

Technical partner for early-stage startups: owning architecture and database design, building across backend and frontend, and setting up the engineering foundations (code standards, review process, CI/CD, task planning) that let small teams ship reliable, production-grade software.

Humans.tech

Frosinone (Remote), Italy, May 2025 - June 2026

R&D Backend Lead

Owned all architectural and technical decisions for the R&D backend, personally writing or reviewing most production code. Led a team of up to 5 engineers: planning and prioritization, code review, and defining technology choices, coding standards, and development workflow. R&D output was projected to deliver 20-30% cost savings across the organization (close to €1M annually).

- Authentication system: social login, passkeys, and all standard flows.
- Custom Stripe billing integration: subscriptions, payments, webhooks.
- Asset management and optimization pipeline on AWS Lambda and S3.
- Internationalization layer for dates, time zones, and currencies, enabling the product to operate across multiple markets (built on PostgreSQL).
- LLM-augmented development workflow: integrated LLMs into project setup and the dev cycle.

Backend Engineer

» €1M CRM venture (shipped to production)

Joined partway through delivery, when the product was still basic and partially shipped. Contributed to bringing it to a fully functional state. The product now serves over 100,000 users and is expanding from Italy across European markets.

- Contact sync with HubSpot and Salesforce.
- Email and calendar import for Google and Microsoft Entra.
- Document storage system on S3 supporting all file formats, with presigned URLs.
- AI-powered features: contact summarization and automated content generation, such as emails.
  Stack: Node.js/TypeScript, PostgreSQL, OAuth2

» AI translation services

Built and delivered multiple projects for a translation services client, working as the sole backend engineer in coordination with the frontend team.

- Real-time voice interpreter on OpenAI Realtime API with WebSocket communication.
- AI video generation product from text or source video: GPT summarization, ElevenLabs voice synthesis, and automated composition with generated music and visuals. Optimized API performance up to 5× through database indexing and ffmpeg tuning; scaled from MVP to production.
- Resilient event ingestion system for external services, built on AWS Lambda and SQS: zero data loss on critical operations, reliably delivered to the backoffice for visualization.
  Stack: Node.js/TypeScript, AWS (Lambda, SQS, S3), OpenAI API (incl. Realtime), ElevenLabs, ffmpeg, WebSockets

Sinnefo

Bolzano (Remote), Italy, April 2024 - May 2025

Frontend & Mobile Developer

- Built an enterprise React Native app (around €35k project value) for warehouse management, integrated with SAP.
- Maintained and shipped features on Next.js and TanStack Router frontends.
  Stack: React Native, Next.js, TanStack Router, SAP

Bit S.p.A.

Embedded at Reply, Turin (Hybrid), Italy, August 2023 - April 2024

Backend Developer

» Client: Fortune 500 global retail/apparel group

- Built microservices for a global backoffice serving thousands of users worldwide.
- Engineered event-driven pipelines using Kafka with a throughput of several GB per minute range.
- Designed a complex notification system based on templating, orchestrated via AWS SQS queues and AWS Lambda functions.
- Daily English communication with distributed teams across Italy, USA, Germany, and Switzerland.

  Stack: Java 17, Spring Boot, Apache Kafka, MongoDB, MySQL, AWS (Lambda, SQS, S3)

» Client: Global eyewear leader

- Bug fixing and maintenance on legacy enterprise systems in production using Spring Boot and Oracle.
- Direct collaboration with the support team for incident resolution.

  Stack: Java 8, Oracle Database

TECHNICAL SKILLS

Languages	Java, TypeScript, Python, Assembly (NASM)
Backend	Spring Boot, Node.js, microservices, event-driven architectures
Frontend	React, TanStack Start
Databases	PostgreSQL, MySQL, Redis, MongoDB
Messaging & Streaming	Apache Kafka, RabbitMQ
Cloud	AWS (Lambda, S3, SQS)
Other	Claude Code, Linux, Git, GitHub CI/CDs, Docker

PERSONAL PROJECTS

» Beeopera (beeopera.com)

Co-founded and launched an all-in-one business management platform for businesses of all sizes, covering bookings, inventory, and customer communication, taking it from idea to production together with a fellow engineer. Led the architecture and technical direction: an event-driven Java/Spring Boot backend built on CQRS, with PostgreSQL as the source of truth, RabbitMQ for async processing, and a TanStack Start frontend. Shared product definition and delivery.

MENTORSHIP & TEACHING

- Mentored university students (former high-school classmates) on programming and software engineering.
- 1-on-1 coaching: took one mentee from zero programming background to a paid developer role, covering data structures, teamwork and engineering practices, and Spring Boot.

LANGUAGES

Italian	Native
English	B2

EDUCATION

Scientific High School Diploma (**100/100)**

Liceo Scientifico Galileo Galilei, Lamezia Terme, Italy

INTERESTS

Compilers, Bodybuilding, Formula 1, Video games (modded Minecraft)