

Christopher Domenicano

Backend Engineer · R&D Backend Lead

Lamezia Terme, Italy | EU Citizen

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SUMMARY

Backend Engineer with experience across Fortune 500 environments and fast-moving startups, currently leading R&D backend. Focused on event-driven systems and high-throughput services built in Java/Spring Boot and Node.js/TypeScript, including Kafka and RabbitMQ pipelines, AWS Lambda/SQS workflows, and OAuth2 integrations. Recently contributed to shipping a €1M internal venture to production.

PROFESSIONAL EXPERIENCE

Humans.tech

Frosinone (Remote), Italy, May 2025 - Present

R&D Backend Lead

Own all architectural and technical decisions for the R&D backend, personally writing or reviewing most production code. Lead a team of up to 5 engineers: planning and prioritization, code review, and defining technology choices, coding standards, and development workflow. R&D output is 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, now expanding from Italy to multiple European markets and serving over 100,000 users.

- 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 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 5x 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 back-office 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 Start 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 throughput in the GB/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 React, Spring Boot and Oracle.
- Direct collaboration with the support team for incident resolution.
Stack: Java 8, Oracle Database

Freelance & Occasional Client Work

Side engagements alongside main employment

- Occasional collaborations with various clients, delivering products with high satisfaction.
- Frontend projects in React; web scraping automations in Python and Java with Selenium.

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

» Reservation Management System

- Architected the whole system and managed one developer through implementation and delivery.
- CQRS architecture with event publishing on RabbitMQ for resilient async processing.
- Multi-channel notification system: email via SendGrid + in-app notifications delivered via SSE.
- Frontend built from scratch with TanStack Start and ShadcnUI.
- Authentication, client and reservation management with email reminders, and a public self-service booking page for clients to select and reserve time slots.

Stack: Java 25, Spring Boot 4, TanStack Start, RabbitMQ, Redis, PostgreSQL, Cloudflare R2, SendGrid

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, team work and engineering practices, and Spring Boot.

LANGUAGES

Italian	Native (C2)
English	B2

EDUCATION

Scientific High School Diploma (100/100)

Liceo Scientifico Galileo Galilei, Lamezia Terme, Italy

INTERESTS

Software engineering and personal coding projects, Bodybuilding, Formula 1, Video games (modded Minecraft)