

Roman Stoianov

Senior Full-Stack / Product Engineer — TypeScript, Node.js, React, AWS

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Professional Summary

Senior Software Engineer with 7+ years of experience building full-stack applications, backend services, and cloud platforms. Experienced in delivering end-to-end features using TypeScript, React, Next.js, Node.js, and AWS, from technical design through production deployment. Background in scalable architecture, developer platforms, and leading engineering teams, with a focus on solving real product and business problems.

Technical Skills

- **Programming Languages:** TypeScript, Python, Java, SQL
- **Backend:** Node.js, tRPC, NestJS, Spring Boot, REST APIs, GraphQL, Zod, Drizzle ORM, Prisma, TypeORM, MongoDB
- **Frontend:** React, Next.js, Server-Side Rendering (SSR)
- **AWS:** AWS Lambda, Amazon SQS, Amazon SNS, Amazon S3, Amazon Aurora, Amazon DynamoDB, Amazon ECS, AWS KMS, Amazon CloudWatch, AWS CDK
- **Databases:** PostgreSQL, Amazon Aurora, MongoDB, Amazon DynamoDB, Azure SQL
- **Cloud & Infrastructure:** AWS, Microsoft Azure, Cloudflare, Docker, Kubernetes, Terraform, AWS CDK, Infrastructure as Code (IaC), CI/CD
- **Architecture:** Microservices, Serverless Architecture, Event-Driven Architecture, Distributed Systems, Multi-Tenant Architecture, Backend-for-Frontend (BFF), Data Ingestion Pipelines
- **Messaging & Integration:** Amazon SQS, Amazon SNS, Apache Kafka, Azure Service Bus, SendGrid
- **Security & Observability:** AWS KMS, mTLS, AWS IAM, Encryption, Access Control, Audit Logging, Amazon CloudWatch
- **Testing & Tools:** Git, Jest, Playwright, Docker

Professional Experience

Tools for Humanity GmbH – Software Engineer

2026 – Present

- Design and develop backend services for a **multi-tenant enterprise platform** using TypeScript, Next.js, Hono/tRPC, PostgreSQL, and Drizzle, delivering APIs, data access, search, filtering, and asynchronous workflows.
- Architected an **event-driven analytics ingestion pipeline** using Amazon S3, SQS, Lambda, and KMS, supporting tenant isolation, incremental processing, and full data snapshots.
- Built production AWS infrastructure with **AWS CDK (IaC)** and strengthened platform security through Cloudflare, origin mTLS, encrypted data flows, restricted load balancer access, and audit logging.
- Improved engineering delivery by building an **isolated CI/CD environment** and adding observability and operational tooling for safer deployments, debugging, and production support.

Swiss Re – Software Engineer

2025 – 2026

- Contributed to the decomposition of a legacy trading platform into independently deployable services using Java, Spring Boot, and Angular.
- Developed and maintained backend functionality for mission-critical financial workflows with a focus on reliability, maintainability, and secure service communication.
- Identified and remediated application security and compliance issues involving access controls, data protection, and secure application architecture.

EPAM Systems – Software Engineer

2020 – 2025

- **Retail Product Configurator:** Developed a real-time product configuration application enabling customers to customize products before checkout. Integrated the application with production and inventory systems to improve order consistency and reduce manual processing.

- **Data Analytics Platform:** Developed scheduled ELT pipelines for automated data ingestion, transformation, and reporting. Built dashboards providing operational and business metric visibility.
- **Survey Platform:** Led a six-person frontend engineering team delivering a responsive React application. Coordinated technical implementation, code quality, and delivery while adapting to changing product requirements.
- **Internal Developer Platform:** Developed a centralized and searchable developer portal serving approximately 1,000 engineers and improving access to technical documentation and internal resources.
- **E-Commerce Platform:** Contributed to the migration of a legacy Angular application to Next.js, introducing server-side rendering and a Backend-for-Frontend (BFF) layer for communication with downstream microservices.
- **Developer Portal & Design System:** Built reusable React components and contributed to a shared design system. Developed a GraphQL BFF with caching and centralized error handling on top of distributed backend services.

NIX – Software Engineer

2019 – 2020

- Developed frontend and backend functionality for an e-commerce platform for gym equipment, including customer-facing shopping functionality and customer support workflows.
- Collaborated with product and engineering teams to implement and maintain production web application features.

Education

Kharkiv National University

2013 – 2017

Bachelor's Degree

Personal Projects

- **Project Spec** – VS Code extension for AI-assisted project planning, requirements, and task management.
- **Raccolta** – Helps people find, join, and organize local sports and social activities, making it easier to meet others and stay active together..