

LUCA-ȘTEFAN TAMAȘ

Senior Full-Stack Engineer · System Design · SaaS Builder

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PROFESSIONAL SUMMARY

Full-stack engineer with 5+ years of experience designing, building, and owning production systems end-to-end. Currently engineering high-throughput detection pipelines at Bitdefender while simultaneously building two SaaS products: Mazely — a production indoor navigation platform with a 20+ entity graph-based data model, real-time pathfinding, and enterprise analytics — and Processly, a visual process & project orchestration platform built around a DAG editor that turns repeatable workflows into one-click, schedulable project runs. Proven track record of architecting multi-tenant SaaS platforms, leading technical decisions across teams, and shipping complex systems from zero to production. Seeking Senior Engineer or Tech Lead roles where I can drive system design, own architecture, and deliver measurable business impact.

CORE SKILLS

Languages: TypeScript JavaScript Python SQL C/C++ Dart
Frontend: React Next.js Angular Tailwind CSS Framer Motion SSR/SSG
Backend: Node.js NestJS Express REST APIs Prisma ORM JWT Auth
Data: PostgreSQL MongoDB Redis MySQL Kafka OpenSearch/ELK
Infra: Docker Kubernetes Azure Vercel MinIO GitHub Actions TeamCity
Design: Multi-Tenant SaaS Microservices Event-Driven RBAC Graph Models CI/CD

PROFESSIONAL EXPERIENCE

Security Software Engineer | Bitdefender

Oct 2025 — Present

Iași, Romania · Hybrid

- Engineered high-throughput network traffic analysis pipeline processing large-scale data streams for real-time device identification and anomaly detection across enterprise networks
- Designed and implemented a detection rule engine combining statistical analysis with LLM-assisted automation, improving detection accuracy and reducing manual rule maintenance overhead
- Built and maintained distributed backend services (Node.js, Python) integrated with Kafka for event streaming, Redis for caching, and MongoDB for persistent storage
- Orchestrated containerized microservices on Kubernetes across multiple environments, ensuring high availability and zero-downtime deployments
- Implemented end-to-end observability using OpenSearch/ELK, enabling real-time system monitoring, performance analysis, and proactive incident detection
- Automated the detection rule lifecycle by training LLM agents to generate and validate rule updates within CI/CD pipelines

Founder & Engineer | Mazely (mazely.app)

Mar 2026 — Present

Iași, Romania

- Founded and built Mazely, a production SaaS indoor navigation platform for institutional buildings (hospitals, universities, government facilities) — from concept to deployed product
- Architected a graph-based spatial data model (20+ entities, 7 connection types) enabling multi-floor, multi-building pathfinding with accessibility constraints and real-time route optimization
- Designed photo-guided navigation system: corridor frame sequences with directional indexing, checkpoint-based wayfinding, and QR-code entry points — zero app download required
- Built a full analytics pipeline — navigation session tracking, step-by-step event logging, QR scan analytics, visitor feedback collection, and admin dashboard visualization
- Engineered multi-tenant admin platform with RBAC, per-building branding, invitation-based access, category management, and data export capabilities
- Implemented i18n architecture supporting 4 languages (EN, RO, FR, DE) with a context-based translation system
- Stack:** Next.js 15, React 19, TypeScript, PostgreSQL, Prisma ORM, Docker, MinIO, Vercel | **187 source files, 62 automated tests, 500+ line schema**

Founder & Engineer | Processly

2026 — Present

Iași, Romania

- Designed and built Processly, a SaaS process & project orchestration platform that turns repeatable workflows into visual, executable processes — templates that generate live, state-tracked project runs on demand or on a recurring schedule
- Architected the core process/project domain model: a graph of typed steps with dependencies, per-step fields, role-based ownership, SLAs, and immutable run history — separating workflow design from workflow execution
- Built a visual DAG editor (React Flow) for non-technical users to compose multi-step workflows, with drag-and-drop step authoring, dependency wiring, and live validation

- Implemented project generation pipeline: one-click instantiation, scheduled recurrence, and per-run state machine that isolates in-flight projects from process edits
- Engineered multi-tenant backend with Prisma/PostgreSQL, S3-compatible object storage (MinIO) for attachments, Redis-backed sessions, and Jest + Playwright test coverage
- **Stack:** Next.js 16, React 19, TypeScript, PostgreSQL, Prisma ORM, React Flow, Redis, MinIO, next-intl | **DAG-based workflow engine, full i18n, e2e + unit tests**

Full-Stack Developer | Enovis Software

Aug 2023 — Oct 2025

Iași, Romania · Hybrid

- Led architecture and development of a multi-tenant SaaS platform integrating BI, ERP, DMS, and BPMS modules, serving as the primary technical decision-maker for system design
- Designed a role-based access control (RBAC) authorization model with strict tenant isolation, supporting fine-grained permissions across organizational boundaries
- Architected backend services using NestJS and PostgreSQL with Prisma ORM, designing normalized schemas for complex business domains with migration-based deployments
- Built production frontend applications with Next.js, implementing server-side rendering, state management, and responsive UX across devices
- Established CI/CD pipelines with automated testing, static analysis, dependency scanning, and streamlined deployment workflows
- Introduced system design review practices for new features, evaluating architecture trade-offs, integration patterns, and cross-service dependencies
- Implemented comprehensive audit logging and monitoring for business-critical workflows, enabling traceability and incident investigation

Security R&D Engineer | Aperio Intelligence

Aug 2024 — Jul 2025

Remote · United Kingdom

- Designed and built a centralized authentication and authorization platform supporting multiple services — RBAC, JWT token management, secure session handling, and invitation-based onboarding
- Engineered a payment processing service with end-to-end encryption, secure secret management (Azure Key Vault), and compliance-aware billing workflows
- Deployed and operated cloud-native solutions on Microsoft Azure — managed identities, network segmentation, logging/monitoring, and least-privilege IAM policies
- Owned full-stack features end-to-end (database → API → UI) using Node.js, TypeScript, and PostgreSQL

Full-Stack Developer | Codefy Software

Feb 2022 — Sep 2024

Iași, Romania

- Developed and shipped web applications for clients in hospitality and marketplace sectors, from requirements to production deployment
- Built responsive frontends with React and Angular; designed and implemented backend services with Node.js and Express
- Designed and optimized PostgreSQL and MySQL databases for performance, scalability, and data integrity; collaborated across teams using Jira, Confluence, and Bitbucket

Full-Stack & Mobile Developer | Freelance

Jun 2020 — Feb 2022

Iași, Romania

- Delivered 10+ client projects end-to-end: requirements gathering → architecture → development → testing → deployment → post-launch support
- Built cross-platform mobile apps with Flutter and native Android (Android Studio); web apps with React, Angular, and Node.js
- Published apps on Google Play and Apple App Store; operated as sole developer owning all technical decisions and delivery

EDUCATION

Bachelor's Degree in Computer Science

2021 — 2024

Alexandru Ioan Cuza University, Iași — Software Development & Analysis, Database and Network Design

CERTIFICATIONS

Meta Data Analyst — Meta | **Business Intelligence** — Google | **Advanced Tableau** — CFI

Advanced SQL — Kaggle | **Data Cleaning** — Kaggle | **AI Ethics** — Kaggle

SOC Level 1 (THM-UDEQNFHDHMG) — TryHackMe | **DevSecOps (THM-0D2ACJQ9DS)** — TryHackMe

Security Engineer, Jr Penetration Tester, Cyber Security 101, Web Fundamentals, Pre Security — TryHackMe

LANGUAGES

Romanian (Native) | **English** (C2 — Full Professional Proficiency)