

Rares Liscan

Full-Stack / AI Integration Engineer — Python, Node.js, Cloud & Data Systems

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Experience

Cognizant

AI Backend Developer — Nest.js, Python FastAPI

Remote, Full-time
Jan 2025 – Present

- Designed and maintained core LLM microservice architecture for production-ready AI workflows.
- Migrated backend services from FastAPI to Nest.js, improving API throughput by 200% and reducing operational overhead.
- Built modular agent workflows, enabling teams to integrate domain-specific AI agents with minimal dependencies.
- Collaborated with architects and other senior engineers on system design, performance optimization, and roadmap decisions.

QPillars

Mid-Senior Full-Stack Developer — React, Python FastAPI

Remote, Part-time Contract
Nov 2024 – Jun 2025

- Integrated advanced biomedical instruments using Python FastAPI and Next.js, enabling structured data acquisition from hardware devices.
- Redesigned core application flows together with UI/UX and product stakeholders, improving usability and client satisfaction.
- Consolidated multiple projects into a unified monorepo, streamlining development and reducing maintenance overhead.
- Designed CI/CD pipelines for testing, validation, and deployment across heterogeneous software and hardware environments.
- Improved frontend performance by over 60%, reducing load times and improving interactivity.

Gov-Smart

Mid-Senior Full-Stack Developer — React, Node.js, tRPC

Remote, Full-time Contract
Jul 2023 – Oct 2024

- Architected and implemented an e-governance solution for public institutions, covering APIs, workflows, and user-facing applications.
- Built data-processing microservices using Elasticsearch to extract, index, and expose public job and acquisition data.
- Implemented real-time voting for local council meetings using Socket.io and event-driven client-server communication.
- Designed backend workflows, data models, and integrations for multi-role institutional users.
- Mentored junior developers and guided implementation standards across the codebase.

Nanolabs Electronics

Junior-Mid Developer — React, Node.js, C/C++

Cluj-Napoca, Full-time
Apr 2022 – Jul 2023

- Worked across web applications, microservices, IoT devices, and embedded integrations.
- Led development on business optimization and embedded systems projects for enterprise clients.
- Coordinated a cross-functional team of 7 across embedded, full-stack, and UI/UX workstreams.
- Documented features and technical decisions across software and hardware-adjacent systems.

Education

Technical University of Cluj-Napoca

BEng in Robotics

Oct 2021 – Jul 2024

Core Strengths

AI Integration

LLM workflows, agent systems, RAG, AI-assisted product features, production AI services.

Ownership & Delivery

Ambiguous requirements, technical leadership, stakeholder communication, on-time delivery.

Complex Systems

Hardware integrations, data pipelines, performance constraints, edge/cloud architectures.

Selected Projects

DotTrim

AI video analysis platform for videographers

Built a desktop-first product using Python, FFmpeg, OpenCV, Electron, SQLite & PostgreSQL, and cloud AI workflows. Worked on local processing, video quality analysis, NLE export, telemetry, and hybrid local/cloud architecture.

Digital Signage Platform

Distributed media platform for Android TV

Built production software for managing remote TV devices, media campaigns, caching, API communication, and device orchestration.

Personalized Book Generator

Django-based PDF generation system

Built a Django backend for deterministic personalized book generation using FPDF and PIL, focused on layout correctness and print-ready output.

Technologies

Languages

Python, TypeScript, JavaScript, C/C++

Backend

FastAPI, Django, Node.js, Nest.js, tRPC, REST APIs, WebSockets, SSE

Frontend / Apps

React, Next.js, React Native, Electron

Databases

PostgreSQL, SQLite, MySQL, MSSQL, MongoDB, Firebase, Cosmos DB

Cloud / DevOps

Azure, GCP, Docker, Kubernetes, GitHub Actions, Azure Pipelines, CI/CD, Linux