DANIEL ILIES

Full-Stack Engineer | NestJS • Next.js • PostgreSQL • Data Pipelines

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PROFESSIONAL SUMMARY

Full-Stack Engineer with 3+ years building production web applications, data pipelines, and analytics tools. Proven ability to work autonomously in remote, asynchronous teams across EU and international startups. Expert in PostgreSQL schema design, API development (Node.js, Express), and frontend frameworks (Vue, Next.js). Experienced with event tracking systems, data integration, and ETL workflows. Strong problem-solver who breaks down complex business requirements into deployable features.

PROFESSIONAL EXPERIENCE

Full-Stack Engineer (Contract)

BigFoot Company

Nov 2023 - Oct 2024

Led full-stack development for Telegram advertising and user retargeting platform, delivering campaign automation, analytics dashboards, and data pipelines in a distributed startup environment.

- Architected PostgreSQL schemas for campaign tracking, user interactions, and real-time analytics—designed relational data models optimized for reporting and segmentation.
- Built web dashboards with Vue 3, Nuxt 3, and TypeScript enabling marketing teams to create multi-channel campaigns, view funnel analytics, and track user cohorts.
- Developed automated Telegram bot system for campaign broadcasting and personalized user retargeting—integrated event-driven messaging workflows.
- Contributed Node.js/Express backend features supporting campaign orchestration, real-time statistics collection, and API integrations.
- Administered Linux servers for CI/CD deployment, uptime monitoring, and Docker-based infrastructure.

Software Developer (Contract)

DevelBox

Dec 2021 - Sep 2023

Delivered full-stack applications, AI prototypes, and data-driven tools for B2B and academic clients. Independently managed R&D projects, frontend modernization, and analytics integration.

- Developed AdGognition: AI-powered Chrome extension for ad image detection using TensorFlow and OpenAI CLIP—achieved >90% detection accuracy. Built end-to-end pipeline: Python training server, model export to TensorFlow.js, and browser-based inference.
- Refactored UMF Exams platform frontend to Vue 2 + Vuetify—integrated with C# .NET backend, enabling 50% faster feature delivery and improved accessibility for university users.
- Implemented Python/Flask servers for AI/ML prototype deployment—managed data integration, model serving, and API orchestration.
- Awarded 1st Place Innovation for Otis automation tool at CGS—internal tool automated templating and email workflows, reducing manual workload for customer support teams.

Full-Stack Engineering Intern

Trood

Jul 2021 - Oct 2021

Contributed to backend services and platform integrations in a multi-service environment.

- Developed Go backend components and gRPC endpoints for inter-service communication.
- Integrated Telegram bot with backend APIs and assisted with Next.js authentication flows.

EDUCATION

University "1 Decembrie 1918" of Alba Iulia

Bachelor's Degree in Informatics - 9.0/10

Oct 2019 - Jul 2022

PROFESSIONAL SKILLS

Backend & Data: Node.js, Express.js, PostgreSQL, REST APIs, Go, Python, Flask, MongoDB, Data Pipelines, ETL, Event Tracking

Frontend Development: TypeScript, JavaScript (ES6+), Vue.js, Nuxt.js, React.js, Next.js, HTML5, CSS3, Vuetify, Responsive Design

Tools & Infrastructure: Git, Docker, CI/CD, Linux, Nginx, TensorFlow, TensorFlow.js, OpenAI API

PROJECTS

AdCognition – AI Ad Detection with Data Pipeline

Production Chrome extension for real-time ad detection with end-to-end data pipeline: Python/TensorFlow training stack, model conversion to TensorFlow.js, and Flask-based model serving.

- Achieved over 90% detection accuracy in production scenarios.
- Built complete AI pipeline: Python training → TFJS export → Chrome extension deployment with TensorBoard monitoring.
- Implemented Flask services for model hosting, conversion, and API endpoints.

UMF Exam Portal – Frontend Modernization

Refactored legacy exam platform frontend to Vue.js with Vuetify component library, improving accessibility and delivery speed by ~50%.

- Migrated 30+ pages from vanilla HTML/CSS/JS to Vue 2 with Vuetify.
- Integrated with existing C# .NET backend APIs.

AWARDS AND HONORS

1st Place Innovation Contest

Awarded by: CGS Romania

Date: 2023-01

Won for 'Otis' automation tool that streamlined templating and workflow processes for support teams.

LANGUAGES

English: Proficient

Romanian: Native

Russian: Native