

Daniel Ilies

Full-Stack Engineer | FastAPI • Next.js • PostgreSQL • Docker

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Profile

Full-Stack Engineer with 3 years building scalable web applications using Next.js, Node.js, FastAPI-ready Python backends, and PostgreSQL; shipped production microservices, real-time dashboards, and CI/CD deployments via Docker; achieved 25% page-load improvements and 90%+ ML model accuracy in production.

Experience

Software Developer

Jun 2023 - May 2025

DevelBox • Iasi, Romania

Engineered scalable web applications and microservices with Vue.js, Next.js, Node.js, and Python; deployed ML-driven systems and optimized database performance.

- Built AdCognition: end-to-end ML pipeline with Python/TensorFlow training, Flask API services, and Next.js dashboard; achieved 90%+ detection accuracy in production.
- Led Vue 2 → Vuetify frontend migration, improving page load times by 25% through code splitting and performance optimization.
- Developed RoboGPT microservice integrating NVIDIA Isaac Sim with OpenAI APIs, reducing manual simulation inputs by 30%.
- Maintained Linux-based ML infrastructure with Flask services, PostgreSQL data flows, TensorBoard monitoring, and Docker deployments.
- Implemented RESTful APIs, authentication flows, and real-time data ingestion pipelines for analytics dashboards.

Full-Stack Engineer (Contract)

May 2025 - Aug 2025

BigFoot Company • Remote, Germany

Delivered production-ready web applications using Next.js, Vue 3, and TypeScript with focus on scalability and API integration.

- Developed responsive landing pages and multi-step workflows with Next.js, Vue 3, and TypeScript.
- Integrated RESTful APIs with backend services, optimizing data flow and system performance.
- Implemented authentication, cross-browser compatibility, and responsive design patterns.

Full-Stack Engineering Intern

Jul 2025 - Oct 2025

Trood • Remote

Contributed to microservices architecture with Go backends, Next.js frontends, and message queue integrations.

- Developed Go backend microservices with gRPC endpoints for inter-service communication.
- Implemented Next.js authentication flows and integrated Telegram bot with backend APIs.
- Built data serialization flows and tested API endpoints across distributed services.

Projects

AdCognition – ML-Powered Real-Time Detection System

Jun 2023 - May 2025

DevelBox

Production microservice with Python/TensorFlow training pipeline, Flask API, PostgreSQL data storage, and Next.js dashboard for real-time analytics.

- Achieved 90%+ detection accuracy with TensorFlow transfer learning and CLIP model.
- Deployed scalable Flask API with PostgreSQL backend and Docker containerization.
- Built Next.js dashboard for real-time monitoring and analytics visualization.

IT-Hub – Full-Stack Social Platform

Jun 2021 - Jul 2022

Scalable web application built with React, Node.js, Express, and MongoDB; demonstrates microservices patterns and API design.

- Implemented RESTful APIs with Node.js/Express and MongoDB database integration.
- Built authentication system and real-time data updates with WebSockets.
- Designed component-based React architecture with Redux state management.

Education

University "1 Decembrie 1918" of Alba Iulia

GPA: 9.0/10

Skills

Frontend Development

Next.js • React • Vue.js • TypeScript • JavaScript (ES6+) • HTML5 • CSS3 • Tailwind CSS • Responsive Design

Backend & Databases

Node.js • Python • FastAPI • Express.js • PostgreSQL • MongoDB • REST APIs • Go • gRPC • Message Queues

DevOps & Tools

Docker • CI/CD • Git • Linux • Nginx • Flask • TensorFlow • Performance Optimization

Languages

English

Full Professional Proficiency

Romanian

Native speaker