

Daniel Ilies

Senior Backend Developer | Node.js • MongoDB • Python • System Architecture

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Profile

Experienced Backend Developer with 3+ years in building scalable, secure applications using Node.js, Python (Flask), Go, and MongoDB. Proven in system architecture, performance optimization (e.g., 25% page-load improvements), API integrations, and Linux-based infrastructure management. Skilled in agile environments, cross-functional collaboration, and mentoring juniors; open-source contributor available for on-site roles in UAE with work permit capability.

Experience

Software Developer

Jun 2023 - May 2025

DevelBox • Iasi, Romania

Engineered backend solutions and maintained Linux-based systems for scalable ML-integrated applications in agile teams.

- Designed and implemented backend services with Python/Flask for ML pipelines, including model hosting, conversion, and TensorBoard monitoring.
- Optimized MongoDB schemas and aggregation pipelines for efficient data handling in production ML systems.
- Managed Linux servers for deployment workflows, applying performance-aware coding to reduce simulation inputs by ~30% in RoboGPT project.
- Mentored junior developers on code reviews and best practices for maintainable web applications.
- Integrated 3rd-party APIs (OpenAI, NVIDIA Isaac Sim) with secure, asynchronous processing for high-performance robotics simulations.

Full-Stack Engineering Intern (Backend Focus)

Jul 2025 - Oct 2025

Trood • Remote

Developed backend services and integrations in a multi-service architecture using Go and gRPC.

- Built scalable Go backend components and gRPC endpoints for inter-service communication and data serialization.
- Implemented secure API integrations, including Telegram bot with backend services, ensuring efficient message brokering.
- Applied Git workflows and CI/CD practices for reliable deployments in containerized environments.

Full-Stack Engineer (Contract)

May 2025 - Aug 2025

BigFoot Company • Remote, Germany

Collaborated on backend API integrations to support scalable dashboard features.

- Integrated RESTful APIs with Node.js backend for data flow optimization in multi-step workflows.
- Ensured security best practices in API development and cross-functional team collaboration.

Developer

Mar 2022 - Jul 2023

CGS Romania • Remote, Romania

Developed internal automation tools to streamline workflows and improve efficiency.

- Created JavaScript-based templating tool (Otis) for secure form-filling and email generation, winning company innovation award.
- Automated background tasks using RegEx and jQuery, demonstrating strong problem-solving and optimization skills.

Projects

IT-Hub – MERN Stack Social Media Web Application

Jun 2021 - Jul 2022

University

Full-stack social platform with robust Node.js/Express backend, MongoDB database design, and secure API endpoints.

- Architected MongoDB schemas with indexing and aggregation pipelines for scalable data management.
- Implemented authentication, job queues for posts/likes, and 3rd-party API integrations following best design principles.
- Ensured performance optimization through efficient querying and caching strategies.

AdCognition – End-to-End ML Ad Detection System

Jun 2023 - May 2025

DevelBox

Backend ML infrastructure with Python/Flask services, MongoDB integration, and Docker deployment for high-performance ad detection.

- Developed scalable Flask backend for model training, conversion (TensorFlow to TFJS), and real-time inference with 90%+ accuracy.
- Optimized Linux-based systems for aggregation pipelines and debugging, integrating secure 3rd-party APIs.
- Utilized Git and CI/CD for collaborative development in agile environment.

MARS5 TTS Telegram Bot

Oct 2024 - Dec 2024

Python backend bot for voice cloning via CambAI MARS5 API, deployed with Docker in a secure, asynchronous setup.

- Integrated 3rd-party APIs with message brokering for efficient background task handling.
- Applied security best practices and performance optimization in Linux environment.

RoboGPT

Jun 2024 - Apr 2025

DevelBox

Backend extension for NVIDIA Isaac Sim using Python and OpenAI APIs for natural language processing in robotics.

- Built scalable backend with job queues and LLM integration, reducing manual inputs by ~30%.
- Mentored on system design and optimization for cross-functional robotics team.

Education

Bachelor's Degree in Informatics

2019 - 2022

University "1 Decembrie 1918" of Alba Iulia

GPA: 9.0/10

Relevant Coursework: Bachelor Thesis: Building a Modern Fullstack Web Application with Emphasis on Backend Architecture

Certifications

Cybersecurity Essentials

Apr 2022

Cisco

Awards & Honors

1st Place Innovation Contest

Jan 2023

CGS Romania

Awarded for Otis automation tool that optimized backend workflows for efficiency and scalability.

Skills

Backend Development

Node.js • Express.js • Python • Flask • Go • gRPC • MongoDB • REST APIs • API Integration • Authentication • Job Queues • Background Tasks

System Architecture & Optimization

Software Architecture • System Design • Performance Optimization • Scalability • Linux System Management • Debugging • CI/CD Pipelines • Git Workflows

DevOps & Tools

Docker • Containerized Environments • Nginx • Jenkins • Security Best Practices

Frontend (Supporting)

Vue.js • React.js • Next.js • TypeScript • Responsive Design

Languages

English Full Professional Proficiency

Romanian

Native speaker

Russian

Native speaker