DANIEL ILIES

Backend Software Engineer

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PROFESSIONAL SUMMARY

Backend Software Engineer with 3+ years delivering highly available, scalable systems for startups and enterprise clients. Expert in Go, Java, and distributed architectures—built production systems handling campaign automation, real-time analytics, and AI/ML integration. Proven ability to optimize performance, troubleshoot Linux production environments, and lead full-cycle project delivery in remote, multicultural teams.

PROFESSIONAL EXPERIENCE

Backend Software Engineer (Contract)

BigFoot Company

Nov 2023 - Oct 2024

Led backend architecture and development for a Telegram advertising platform, delivering campaign automation, multi-channel messaging, and real-time analytics infrastructure.

- Architected and optimized PostgreSQL schemas for campaign tracking, user interactions, and analytics—enabling scalable data models for high-volume messaging.
- Built automated Telegram bot system with multi-channel message delivery and user retargeting workflows using Java Spring Boot and Node.js.
- Developed RESTful APIs and backend services supporting real-time statistics collection and campaign orchestration.
- Administered and optimized Linux production servers, ensuring resilient deployment, uptime monitoring, and CI/CD automation with Docker.
- Collaborated in distributed team environment, responding rapidly to pivots and maintaining clear cross-functional communication.

Backend Software Engineer (Intern)

Trood

Jul 2025 - Oct 2025

Developed Go backend services and gRPC endpoints in a microservices architecture.

- Implemented Go backend components and gRPC inter-service communication for distributed system architecture.
- Designed and tested data models, serialization flows, and message queues across multiple services.
- Integrated Telegram bot with backend APIs, supporting real-time messaging and workflow automation.

Software Engineer (Contract)

DevelBox

Dec 2021 - Sep 2023

Delivered backend systems, AI/ML prototypes, and automation solutions for academic and B2B clients.

- Developed AdCognition AI system: built Python/Flask backend with TensorFlow and OpenAI CLIP for ad detection—achieved >90% accuracy in production.
- Built RoboGPT backend: integrated LLM APIs and orchestration logic for robotics proof-of-concept with NVIDIA Isaac Sim.
- Deployed Python/Flask microservices supporting AI/ML workflows, model serving, and monitoring via TensorBoard.
- Refactored UMF Exams platform backend integration (C# .NET), enabling 50% faster feature releases.
- Won 1st Place Innovation Award for Otis automation tool—deployed internally, reducing manual workload for support teams.

EDUCATION

University "1 Decembrie 1918" of Alba Iulia

Bachelor's Degree in Informatics - 9.0/10

Oct 2019 - Jul 2022

PROFESSIONAL SKILLS

Backend Development: Java, Spring Boot, Go, Golang, gRPC, Node.js, Express.js, RESTful APIs, Microservices, Python, Flask

Distributed Systems & Databases: PostgreSQL, MySQL, MongoDB, NoSQL, Distributed Storage, Message Queues, Caching, Distributed Locks, System Design

DevOps & Infrastructure: Linux Administration, Docker, CI/CD, Git, Nginx, Server Optimization, Performance Tuning, Monitoring

AI/ML Integration: TensorFlow, OpenAI API, Model Deployment, ML Pipelines, TensorBoard

PROJECTS

AdCognition – AI Ad Detection System

Production backend system for real-time ad detection using Python, TensorFlow, Flask, and OpenAI CLIP with model conversion to TensorFlow.js.

- Built scalable Python/Flask backend serving AI models with >90% detection accuracy.
- Implemented model training pipeline, TFJS export, and TensorBoard monitoring for production ML workflows.
- Optimized API performance and model serving for low-latency inference.

RoboGPT – LLM-Powered Robotics Backend

Backend orchestration system integrating LLM APIs with NVIDIA Isaac Sim for automated robotics control.

- Developed backend services for LLM-based command parsing and Isaac Sim integration.
- Reduced manual simulation overhead by 30% through automated orchestration workflows.

AWARDS AND HONORS

1st Place Innovation Contest

Awarded by: CGS Romania

Date: 2023-01

Awarded for Otis automation tool that streamlined backend workflows and improved team efficiency.

LANGUAGES

English: Proficient

Romanian: Native

Russian: Native