

# Daniel Ilies

Backend Software Engineer

[iliesh.daniel@gmail.com](mailto:iliesh.daniel@gmail.com) (+971) 54-753-6361 Dubai [danielilies.bio](https://danielilies.bio) GitHub LinkedIn

## Profile

Backend Software Engineer with 3+ years building high-performance, distributed systems for startups and enterprise clients. Proven expertise in Java, Go, Node.js, and system design patterns including message queues, distributed storage, and caching. Delivered production systems serving thousands of users with 90%+ reliability. Strong computer science fundamentals in algorithms, data structures, networking, and database optimization. Experience with AI/ML integration in production environments.

## Experience

### Backend Software Engineer

Nov 2023 - Oct 2024

BigFoot Company • Germany (Remote)

Designed and developed backend systems for Telegram advertising platform serving multi-channel campaigns and user analytics.

- Architected RESTful APIs and PostgreSQL schemas for campaign tracking, analytics, and user interactions achieving sub-200ms query performance
- Built distributed Telegram bot system with automated broadcasting and personalized retargeting for 10K+ users
- Implemented backend services using Java Spring Boot and Node.js with message queue integration for asynchronous processing
- Optimized database queries reducing load times by 40% through indexing and schema refinement
- Administered Linux production servers ensuring 99%+ uptime with CI/CD pipelines and Docker deployment

### Software Engineer

Dec 2021 - Sep 2023

DevelBox • Romania (Remote)

Developed backend systems, AI/ML solutions, and automation tools for B2B and academic clients.

- Architected AdGognition AI system achieving 90%+ accuracy using TensorFlow and OpenAI CLIP, deployed Python/Flask backend handling real-time inference requests
- Built RoboGPT backend integrating LLM APIs with robotics simulation, reducing manual orchestration by 30%
- Developed Python Flask microservices for ML model serving with monitoring and health checks
- Optimized database queries and backend logic for UMF Exams platform (C# .NET backend), enabling 50% faster feature delivery
- Implemented caching strategies and asynchronous task processing to improve system throughput

## Backend Engineer (Internship)

Jul 2021 - Oct 2021

Trood • Remote

Contributed to Go-based microservices architecture and inter-service communication.

- Developed Go backend services with gRPC for efficient inter-service communication in distributed system
- Implemented data models, serialization, and RESTful endpoints for multi-service platform
- Integrated Telegram bot APIs with backend services for real-time messaging functionality

## Projects

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### AdGognition – AI-Powered Backend System

Jun 2023 - May 2024

Built Python/Flask backend serving TensorFlow models for real-time ad detection with 90%+ accuracy.

- Architected ML pipeline: Python training with TensorFlow and CLIP, model conversion, and Flask API deployment
- Implemented efficient model serving with caching and async processing for sub-second inference
- Deployed monitoring via TensorBoard and health check endpoints for production reliability

### RoboGPT – LLM Integration Backend

Feb 2024 - May 2024

Developed backend orchestrating LLM APIs and robotics simulation reducing manual input by 30%.

- Built Python backend integrating OpenAI APIs with NVIDIA Isaac Sim for automated command execution
- Implemented request queuing and async task processing for system scalability

# Education

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## Bachelor's Degree in Informatics

2019 - 2022

University "1 Decembrie 1918" of Alba Iulia

GPA: 9.0/10

# Skills

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## Backend Development

Java • Spring Boot • Go • Golang • Node.js • Express.js • Python • Flask • REST APIs • gRPC • Microservices

## Distributed Systems & Infrastructure

Message Queues • Distributed Storage • Caching • Distributed Locks • System Design • High Availability • Performance Optimization • Docker • CI/CD • Linux • Nginx

## Database & Storage

MySQL • PostgreSQL • NoSQL • MongoDB • Database Optimization • Query Tuning • Schema Design • Indexing

## AI/ML Integration

TensorFlow • OpenAI API • Machine Learning • Model Deployment • ML Pipelines

## Computer Science Fundamentals

Data Structures • Algorithms • Operating Systems • Computer Networks • Information Security

## Development Tools

Git • Bash • Linux Administration • Troubleshooting • JVM Tuning • Go pprof

# Languages

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English

Proficient Romanian

Native Russian

Native