

BOGDAN-ALEXANDRU TRUȚĂ

AI Engineer @ ERNI · Co-Founder of AlphaProve

✉ bogdan@bogdantruta.com 📍 Cluj-Napoca, Romania

🌐 bogdantruta.com 🐙 Bogzx 🌐 bogdantruta

EXPERIENCE

AI Engineer

ERNI

May 2026 – Present

📍 Cluj-Napoca, Romania

- Grounded LLM generation with source-traceable outputs, backed by hybrid lexical + vector retrieval.
- LLM-as-judge evaluation harnesses for scoring generation quality.

Co-Founder

AlphaProve

Jan 2026 – Present

🌐 alphaprove.com

- Co-founded a deployed multi-tenant quantitative backtesting SaaS, now in private beta.
- Designed the AI strategy loop: plain-English descriptions become executable code, validated by backtest.
- Built the backtesting engine: tick-precision exchange simulation with **L2 order-book** fills and ML-driven walk-forward validation.

Software Engineering Intern

NTT DATA

Dec 2025 – Mar 2026

📍 Cluj-Napoca, Romania

- Led a 6-developer Agile team delivering a hotel-booking REST API in **Java/Spring Boot** with **JWT/RBAC** security; shipped via **GitHub Actions** CI/CD to a Dockerized Linux VPS.

FEATURED PROJECTS

eGata | AI Agent Platform – Cluj Hackathon 2026

Technologies: Python, FastAPI, Azure OpenAI, pgvector, Twilio

- AI agent guiding citizens through municipal procedures over voice, text, and telephone.
- Retrieval-augmented procedure matching, signed PDFs via **LaTeX**, and a tamper-evident hash-chain audit ledger.

GOSHA Jobs | Job-Matching Platform – Live

Technologies: Python, FastAPI, sentence-transformers, React

- Ranks job openings against a CV using sentence-transformer embeddings with **Rocchio** relevance feedback.
- Deployed and used by 20+ students, half of whom have since landed new roles.

TECHNICAL SKILLS

Languages | Python, TypeScript, JavaScript, Java, C, C++, Rust, SQL

AI & ML | LLM integration & agent systems, MCP, Langfuse, PyTorch, YOLO, OpenCV, sentence-transformers

Backend & Frameworks | FastAPI, Celery, Spring Boot, Node.js, Hono, Next.js, React

Infrastructure & Data | Docker, GitHub Actions CI/CD, PostgreSQL, TimescaleDB, pgvector, Redis, SQLite

Systems & Security | seccomp-BPF sandboxing, Linux namespaces, JWT, Spring Security

EDUCATION

BSc Computer Science

Babeş-Bolyai University

Expected 2028

📍 Cluj-Napoca, Romania

ACHIEVEMENTS

- 1st Place – App Development, *PoliHack 2025*
- 2nd Place – AI App Development, *PoliHack 2026*
- 4th Place – AI/Data Science, *Cloudflight Coding Contest 2025*
- National Robotics Champion, *NEXTLAB.TECH 2021*

Cluj-Napoca
Cluj-Napoca
Cluj-Napoca
Bucharest

CERTIFICATIONS & LANGUAGES

- Entrepreneurial Skills Pass – *June 2023* | ICDL Certification – *2024*
- English: **C1 Proficiency** | Romanian: **Native**