



Buzau Cosmin-Ionut

AI Software Engineer

✉ buzaucosmin6@gmail.com

♀ Iași, România

Skills

◆ Programming Languages

Python, TypeScript, JavaScript, Java, C, C++, MQL5

◆ Frameworks & Libraries

Next.js, React, FastAPI, Flask, Tailwind CSS, LangChain, Microsoft Bot Framework

◆ Machine Learning

PyTorch, LightGBM, XGBoost, scikit-learn, OpenCV, pandas, TensorFlow

◆ AI & Automation

LLM Integration, Anthropic Claude, Amazon Bedrock, RAG Pipelines, Whisper, Workflow Automation, Trading Automation

◆ Databases & Backend

Supabase, MongoDB, PostgreSQL, pgvector, SQLite, REST APIs

◆ DevOps & Tools

AWS (Lambda, S3, SAM, Bedrock), Docker, Git, GitHub, Vercel, Railway, Linux, OAuth2, Azure AD

◆ Languages

Romanian — Native, English — B2

Achievements

Admitted to CTI (Computer Science & IT) among the top applicants — 2024

Built 3 production websites for real paying clients — 2025–2026

Engineered a self-retraining ML trading system (LightGBM + PyTorch) — 2026

Computer Science student at "Gheorghe Asachi" Technical University, Iași, who builds and ships real software: AI-powered apps, machine-learning systems and full-stack websites that paying clients use in production every day. Strong with Python, TypeScript, Next.js and LLM integrations (Claude, Amazon Bedrock, RAG).

Actively seeking a Full Stack / Software Engineer / AI Engineer role where I can own features end-to-end, from idea to production.

Profiles

◆ Personal Website

buzaucosmin.vercel.app

◆ LinkedIn

cosmin-ionut-buzau

◆ GitHub

buzeu1

Experience

Freelance AI Software Engineer — Self-Employed

Jan 2025 — Present

Iași · Remote

- ◆ Build websites and AI automations end-to-end for real clients — design, code, database, deployment, domains and ongoing maintenance, all handled by me.
- ◆ Automated repetitive business processes with AI: smart product search that survives typos and translations, voice requests turned into text, automatic offer and document generation (PDF), and customer-facing chat assistants.
- ◆ Designed, built and maintain three production websites — each with its own admin flow, so the owners update content without ever needing a developer:

Aeron Termosistem · aerontermosistem.vercel.app — construction & renovation company site built on Next.js with MongoDB and Cloudinary. The client uploads photos himself and the gallery updates automatically; the contact form saves every lead straight to the database.

Compact Drive · compactdrive.ro — driving school platform built on Next.js with Supabase (PostgreSQL). The owner manages the gallery and promotions alone from three simple admin pages, enrollment requests arrive instantly by email, and technical SEO now drives 150+ organic visits a month straight from Google Search.

Boeru's Doner · boerus-d.ro — platform for a fast-food chain, built on Next.js with Tailwind CSS: digital menu, promotions page and an interactive map (Leaflet) of the branches. Now bringing in real customers — 500+ visits in the last three months.

Education

Universitatea Tehnică "Gheorghe Asachi", Iași

Oct 2024 — Present

Bachelor's in Progress — Computer Science and Information Technology

Iași, România

Projects

1. AI Trading Bot — Self-Retraining ML System for MetaTrader 5

Trading bot for MetaTrader 5 that runs and improves itself, built on multi-year price history and engineered market features. Every night it backtests trading strategies against fresh market data to generate labeled trade signals and retrains two competing models on them — LightGBM followed by a PyTorch neural network — both periodically tuned with Optuna. Models are validated the honest way: only on data they have never seen, with realistic hour-of-day spread and slippage costs included. A new model only replaces the live one if it genuinely outperforms it out-of-sample — a safeguard against a bad training run silently degrading production — every trade needs a minimum expected profit after costs, and a kill switch stops everything if losses or model drift grow. The database, trained models and reports are backed up weekly to AWS S3, and live monitoring comes through a Flask dashboard plus daily Telegram status messages. Next step: extending the ML layer from entry filtering to active trade management — deciding when to hold, trail or exit an open position as market conditions evolve.

Tech: Python, PyTorch, LightGBM, scikit-learn, Flask, SQLite, MQL5 / MetaTrader 5, AWS S3

2. AI Chat Assistant — Serverless AI on AWS

Two AWS builds around Amazon Bedrock. First: a serverless chat API — a Python Lambda behind API Gateway calls Claude, the whole infrastructure is written as code (AWS SAM), and the IAM role has exactly one permission: invoking the model. Second: a Next.js 15 chat app that streams Claude's answer word-by-word into the browser as you watch, rendered as formatted Markdown with highlighted code — the same instant feel as ChatGPT.

Tech: Python, AWS Lambda, SAM, API Gateway, Amazon Bedrock (Claude), Next.js 15, TypeScript

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AI Software Engineer

Strengths

- ◆ End-to-end ownership — from idea to production
- ◆ Fast learner, comfortable in new domains
- ◆ Real experience with real clients — I ship, then maintain
- ◆ Clear communication, honest estimates

Coursework

- ◆ Object-Oriented Programming (Advanced)
- ◆ Data Structures & Algorithms
- ◆ Databases
- ◆ Computer Architecture & Assembly
- ◆ Operating Systems (Linux)

Interests

- ◆ AI Agents & Automation
- ◆ LLM Integration
- ◆ AI Product Development
- ◆ Machine Learning for Trading

Find Me Online

Portfolio
buzaucosmin.vercel.app

GitHub
github.com/buzeu1

LinkedIn
linkedin.com/in/cosmin-ionut-buzau

Email
buzaucosmin6@gmail.com

Projects (continued)

3. Sales Assistant Bot — Microsoft Teams

Sales bot for Microsoft Teams and web that answers questions about products, prices and offers — by text or voice. Its search finds the right product even with typos, synonyms or translated names, in three steps: exact code match, fuzzy scoring, then an LLM double-check. When a request is unclear, the bot figures out what exactly is ambiguous — category, size or variant — and asks one short question to settle it. Voice notes are transcribed with Whisper large-v3, confirmed offers come back as PDFs generated on the spot, and the bot connects natively to Microsoft 365 through Azure AD.

Tech: Python, FastAPI, Microsoft Bot Framework, Azure AD (OAuth2), Groq API (Llama 3.1), Whisper, sentence-transformers, ReportLab

4. Fără Agenții — Commission-Free Real Estate Marketplace

Real estate platform where owners sell or rent directly to people — no agents, no commissions. Listings cover apartments, houses, land and commercial spaces across Iași, with search and filters by neighborhood, category and type. Owners manage everything from a personal dashboard and chat live with interested buyers (Supabase Realtime), while buyers save favorites and follow listing statistics. An AI assistant answers questions about the catalog using RAG (LangChain + Supabase pgvector), and every database table is protected with Row Level Security.

Tech: Next.js 14, TypeScript, Tailwind CSS, Supabase (Auth, Storage, Realtime, pgvector), Claude API, LangChain, Vercel

5. EmotionCamera — Real-Time Emotion Recognition

Web app that reads emotions from the webcam in real time. The browser captures ~30 frames per second, shrinks each one on a hidden canvas and sends it to a Python backend that recognizes 7 facial expressions (OpenCV + FER). Back comes the emotion, its confidence and the face position — drawn live over the video as a colored overlay. Backend runs in Docker on Railway, frontend on Vercel.

Tech: Next.js 14, TypeScript, FastAPI, Python, OpenCV, FER (TensorFlow), Docker, Railway, Vercel

6. Trapped in the Server — 2D Java Game, No Engine

2D action-adventure game written in pure Java — no game engine. Custom game loop, rendering and physics at 60 FPS across three levels with different mechanics: a side-scrolling platformer, a top-down exploration level with fog-of-war and a button/door puzzle, and a final boss fight. The code applies OOP design patterns end-to-end (Singleton, State, Abstract Factory), levels are built in Tiled, and progress — position, score, inventory, boss state — saves to SQLite and loads back across sessions. Built in a two-person team for a university course.

Tech: Java, Java2D / AWT, Tiled (TMX), SQLite, JDBC, Design Patterns

Full project write-ups & live demos: buzaucosmin.vercel.app · Source code: github.com/buzeu1

Open to Full Stack / Software Engineer / AI Engineer roles — full-time, part-time or internship, on-site in Iași or remote. Available immediately at buzaucosmin6@gmail.com.