

Daniel Barbu

Senior Software Engineer — Full-Stack & Agentic AI

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Timișoara, Romania — remote, EU and US-morning overlap

Full-stack engineer, 10+ years across enterprise software, product work and web3, now specialising in agentic AI for software development: harness engineering, cost-aware developer workflows and tooling.

EXPERIENCE

Software Engineer & Consultant

Apr 2026 — present

Zero X Solutions (self-employed) · Timișoara, Romania

- Agentic AI engineering and consulting for SMEs: harness design, cost-aware AI developer workflows and agent tooling; open tooling and research published as Agent-Toolkit and Agentic-Dev.

Blockchain Engineer & Consultant

Oct 2021 — Apr 2026

Zero X Solutions · freelance · clients incl. Autonomous Finance, Impossible Finance, BuidlGuidl

- Built a tokenized investment vault system now live on Polymarket — full-stack across multiple chains plus web2 backend infrastructure.
- DeFi primitives and autonomous on-chain agents on AO (actor model, Lua); published technical research on distributed DeFi design.
- Solidity contracts, bridges and upgradeable proxies (Hardhat, Foundry); tokenomics and integration consulting.

Full Stack & Blockchain Engineer

Oct 2022 — Oct 2023

EarnDLT · New York, USA (remote)

- Smart contracts and permissioned-blockchain infrastructure (GoQuorum, Solidity, Kubernetes, AWS).
- Backend in NestJS (PostgreSQL, MongoDB, Redis, BullMQ) and frontend in Next.js; atomic multi-transaction contract updates over queues.

Web Developer & Trainer

Mar 2018 — Apr 2022

DevPlant · Timișoara, Romania

- Front-end architecture for ACI Worldwide's fraud-detection platform (Angular); ran Angular workshops for client developer teams.
- Interactive data visualisation (D3.js) for IQser; desktop-to-web migration in an NX monorepo for Soft Pro; tech lead on a Flutter POS app.

Teaching — languages and mathematics

2010 — 2017

Career break from software · Romania and Germany

- Returned to software in 2017, rebuilding a front-end portfolio in six months.

Software Developer / Project Manager · Research Assistant

2004 — 2010

Graphservice-IT · Innoveas AG · Karlsruhe, Germany

- Java and C# desktop systems; led a four-person in-house team and an outsourced project. Later, technology scouting for research spin-offs.

SKILLS

languages	TypeScript · JavaScript · Python · Solidity · Lua · Java · C#
frameworks	React · Next.js · Node.js · NestJS · Angular · Flutter
data & infra	PostgreSQL · MongoDB · Redis · BullMQ · Docker · Kubernetes · AWS · GitLab CI
agentic AI	Claude and OpenAI APIs · MCP · agent harness design · context and cost engineering

EDUCATION & LANGUAGES

Computer Science, Karlsruhe Institute of Technology — Anthropomatics (HMI, machine learning)

2003 — 2010

English and German — fluent · Romanian — native