

Peter Angeli

Senior full-stack engineer · React, TypeScript, Node.js

Budapest, Hungary · Remote, CET · EU citizen

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6+ years with a Budapest consultancy, delivering for clients end to end, mostly embedded with **one of Europe's largest educational publishers**. I build LLM systems: a retrieval pipeline, an assistant that acts through validated tool calls, and an MCP server for coding agents. On the publisher's stack I build the teacher and pupil platforms **about 60k teachers** use each month, and the exercise rendering engine they run on, and led the reliability and developer experience work. I also ship production systems solo: a Google Play app on my own API and Kubernetes.

Skills

Frontend: TypeScript, JavaScript, React, React Native, Next.js, Astro, Zustand, HTML, CSS, Tailwind

Backend: Node.js, Express, GraphQL, REST & contract-first APIs (ts-rest/Zod), RabbitMQ, PostgreSQL, MongoDB (NoSQL), vector databases (pgvector, sqlite-vec)

Infrastructure: Azure, Cloudflare, Docker, Kubernetes, CI/CD (GitHub Actions), logging and monitoring

Testing: Vitest, Jest, Playwright, Storybook, visual-regression and accessibility testing

AI: LLM tool calling and prompt orchestration, retrieval-augmented generation (RAG) and reranking, Model Context Protocol (MCP) servers, agent frameworks (Claude Code)

Experience

Senior Software Engineer · Danubius IT Solutions · Jun 2020 – present

Budapest, Hungary, hybrid · Senior since 2026, mid-level 2023, Junior 2020

- Budapest IT consultancy. Embedded with Infinitas Learning, and delivering separate client projects end to end.
- Built a complete learning platform solo for a language-education provider: interactive exercises, test scoring with teacher review, and a real-time shared whiteboard.
- Built its chat assistant to edit lesson content directly, through **schema-validated LLM tool calls** rather than free-text output.
- Run **client-facing** requirements and demo sessions with the client's non-technical business representatives, and give first demos to the consultancy's prospects.

Infinitas Learning · embedded in their product team since Aug 2020

Utrecht, Netherlands, remote

- Build and run the primary-education teacher and pupil platforms across **three operating companies** and three localised markets.
- Rebuilt the exercise flow for the engine's third generation, moving navigation, result handling and state rehydration into the engine itself. I drive the rollout across **three host applications** with the consuming teams, previous generation live throughout.
- Built and own the shared Elastic RUM observability module, now in **20+ internal applications**, and wrote the guide teams onboard from.
- Cut teacher-app errors **55%** and pupil-app errors **94%** day over day in one release, from an ordinary day's baseline rather than an incident, using that module to find them.
- Chose a **RabbitMQ queue over synchronous REST** for the preview service after sizing the volume.

- Extended the content API server-side: route handlers, typed SQL, contract-first endpoints consumers cannot break, and their tests.
- Built the engine backend's state-rehydration store on **Azure Blob Storage**, and wired that service's tracing.
- Ship the React and TypeScript engine in every one of the publisher's content packages, **about 6,700** at the last count: 22 interactive exercise types inside a 117-type content model. It runs in three production frontends that Elastic RUM measures at **20M+ browser transactions a day** app-wide. Co-own its typed schema with the editor and CMS teams, and wrote its documentation.
- Built the cross-repo agent workspace our coding agents load at session start: one shell over six repositories with per-repo context files, and two teammates now contribute.
- Work in a 12-person Agile Scrum team: sprint ceremonies, code review and pair programming, and a rotating weekly first-line support shift. I mentor a junior engineer through the company program.

Projects

AI PDF-to-courseware pipeline

A 14-stage typed ETL pipeline that converts print textbooks into structured, validated CMS content, so editors stop re-authoring by hand. Prompt orchestration across stages, retrieval with local reranking, process-isolated plugin execution, and git-like content versioning with diff and revert. Co-built for a European EdTech publisher.

enbrain

An MCP server giving coding agents retrieval over a codebase's GitHub history, embedded locally through Ollama into sqlite-vec. Its multi-tenant self-hosted build scopes every read through **one module, enforced by a lint rule and an isolation test**, envelope-encrypts stored tokens, queues work on Postgres instead of Redis, and fuses vector with full-text retrieval by RRF. Built solo.

BAC Battle

Blood-alcohol tracker with maps and a home-screen widget. React Native client on my own Node.js and MongoDB API, deployed to a **self-run Kubernetes cluster** from kustomize overlays I apply myself.

Education

Master's, Computer Software Engineering · 2021 - 2023

Budapest University of Technology and Economics

Applied Informatics, Data Science and Media Informatics

Thesis: Tokify, a music recommender shipped to Google Play (ASP.NET Core, ML.NET, React Native)

Exchange semester, Computer Engineering · 2022

Delft University of Technology

Erasmus+ Programme

Bachelor's, Computer Software Engineering · 2017 - 2021

Budapest University of Technology and Economics

Software Engineering

Languages

Hungarian (native) · English (C1)