

Norbert Pozsonyi

Senior Full-Stack Engineer - Lead developer - Browser native SaaS developer

TypeScript · React · Next.js · Node.js · Postgres · Claude Code daily

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Open to Tech Lead, Senior/Staff, or founding-engineer roles - remote (EU/US) or Budapest hybrid

Summary

Structural engineer turned software engineer - 18 years building things, 10 of them in process intelligence and full-stack SaaS. 6.5 years at TimelinePI (employee #5, US-based process-mining startup, acquired by ABBYY), where I led the Timeline Processing Team for 2.5 years and scaled the browser-side data architecture from 10M to 100M+ events. Most recently engineer #2 at Tutorial.ai, owning the editing and rendering stack and shipping production AI features (auto-narration, document extraction, vision pipelines) on top of OpenAI. I'm a builder who ships solo when the product needs it - my passion project Truzme is used in 40+ countries and cited in academic research. I work with Claude Code and AI tools daily. What I bring: full-stack ownership from idea to production, deep domain learning across process intelligence, in-browser media processing and AI features, and the kind of high-agency builder mindset that ships under ambiguity.

Core Skills

Languages: React, TypeScript, Node.js

AI / LLM in production: Claude Code daily, OpenAI APIs, ElevenLabs API

Frontend: React, Next.js, Zustand, MobX, Three.js, React Three Fiber, Canvas/SVG

Backend (full-stack reach): Node.js, NestJS, Next.js, Koa, PostgreSQL, MikroORM, Drizzle ORM, Puppeteer (browser automation)

Infra & cloud: Vercel, Google Cloud, AWS

Domains: process mining, AI-assisted SaaS, data-heavy visualizations, interactive editor apps, computational engineering

Leadership: Team Lead 2.5 yrs (ABBYY Timeline), mentoring, interviewing, architecture, internal technical training, founding-engineer mindset

Selected Project - Truzme

Side project, since 2024 · free browser-based structural analysis · www.truzme.com

- Built and launched solo a free browser-based structural-analysis tool used by students, teachers, engineers, and researchers in **40+ countries** - 10k+ monthly visits, fully organic, cited in academic research.
- Stack: React, TypeScript, Zustand, Drizzle ORM, IndexedDB, Web Workers, Vercel - on a **custom in-browser finite-element engine**.
- Full lifecycle ownership: product, engineering, UX, SEO, EdTech outreach

Experience

Full-Stack Engineer, Lead Developer - [Tutorial.ai](https://tutorial.ai)

Mar 2024 – Mar 2026 · Remote / Budapest · Early-stage AI-assisted SaaS, 1st full-stack hire

- Second engineer (first full-stack hire) at an AI-assisted video SaaS for product demos; sole owner of the editing and rendering stack - real-time browser-based editing at 60 fps with AI assistance.
- Shipped production **AI-powered features** on OpenAI: auto-narration (voiceover scripts generated from screen recordings), document-from-video extraction, vision processing of tutorial steps; engineered the text-to-speech / speech-to-text / image-processing pipelines.
- Built the video-generation pipeline (render to MP4) and solved real-time algorithmic challenges, for example: camera movement, auto-zoom, cursor smoothing, auto-cut.
- Migrated the rendering pipeline from PixiJS to Three.js / React Three Fiber; built a slide editor with custom GLSL shaders.
- Full technical ownership: architecture, frontend, and supporting backend (auth, access control, asset management).

Senior Frontend Developer - [Transcend Infra](#)

Feb 2023 – Feb 2024 · Budapest · US-backed Hungarian startup, 70+ employees

- React / Next.js lead; owned refactors, MUI and framework upgrades.
- Built an interactive plant-graph flowchart and a D3.js + Canvas equipment analyzer.
- Rewrote the site-mapping tool from OpenLayers to the Google Maps API on a custom React framework.

Full-Stack Developer → Developer Team Lead - [ABBY \(TimelinePI\)](#)

Aug 2016 – Jan 2023 · Budapest · 6.5 years · US-based process-mining startup, acquired by ABBYY 2019

- Joined as **employee #5** of TimelinePI, a process-mining platform later acquired by ABBYY, stayed through the acquisition and **led the Timeline Processing Team for 2.5 years** as the team grew.
- Scaled the browser-side data architecture from **10M to 100M+ events**; cut business-duration calculation for 100M events from ~10 minutes to a few seconds.
- Led the React-in-AngularJS incremental migration - *replacing the engine while the car kept moving*. Live production migration with zero downtime
- Delivered the layout and redesign for ABBYY Timeline 6.0 and an Alteryx data connector for enterprise customers
- Team-lead responsibilities: architecture decisions, PR reviews, interviewing, onboarding, mentoring, and internal technical training

Founder & CEO - Exelean

Aug 2014 – Aug 2015 · Bootstrapped startup, online platform for engineering calculations

- Gained Autodesk's attention (they initiated partnership talks); declined a term sheet from OXO Labs; 1st prize at PwC Business Model Competition; CEE Liftoff 2015 top-10 regional finalist.
- The venture didn't take off - and it's the experience that drove my pivot from structural engineering into software.

Earlier - Structural Engineering - Wienerberger · Feher-Laumann-Stangenberg · Mérnök-Mátrix · ÉMI

2008 – 2014 · Győr / Hungary

- Six years as structural engineer and technical consultant: ~70 projects in steel and reinforced concrete; structural analysis
- Technical consultant at Wienerberger covering western Hungary - 100+ trainings and presentations a year, plus R&D in energy-efficient masonry structures

Education

MSc, Structural Engineering - University of Pécs (2011 – 2013)

BSc, Civil Engineering - Széchenyi István University, Győr (2005 – 2010)

Honors & Distinctions

- **World Champion, Spaghetti Bridge Building** (Canada, 2008 & 2009) - set a world record.
- AxisVM Diploma Award; SZÉTV National Competition 1st place; Klatsmányi-Varga Scholarship (2006, 2008, 2009)
- Speaker, Fuckup Nights (2019, 2020) - the Exelean post-mortem

Languages

Hungarian (native)

English (professional working)