

Soma Hargitai

Senior Full-Stack & AI Engineer | Tech Lead

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Summary

Senior Software Engineer and Tech Lead with over 10 years of experience designing and building scalable full-stack systems and applied AI solutions. Skilled in TypeScript, React, Node.js, and LLM architectures. Combines a strong foundation in software design, mathematics, and cloud infrastructure to deliver production-ready, intelligent systems. Passionate about bridging technology and creativity, mentoring developers, and turning ideas into high-impact digital products.

Core Competencies and Skills

- AI / ML: OpenAI API, LangChain, FastAPI, Python, RAG Pipelines, Vector DBs (ChromaDB, pgvector)
- Frontend: React 18, Next.js 15, TypeScript, Tailwind CSS, shadcn/ui, Mantine, Material UI
- Backend: Node.js, NestJS, Express, MongoDB, PostgreSQL, GraphQL, NextAuth
- Cloud & DevOps: AWS, Azure, GCP, Vercel, Cloudflare, Docker, GitHub Actions, CI/CD
- Architecture & Leadership: System Design, API Design, Mentoring, Agile/Scrum, Technical Strategy

AI Engineering Highlights

- Designed and deployed LLM-powered content generation and knowledge-retrieval systems using OpenAI, LangChain, and vector databases.
- Built RAG-based prototypes (e.g., nvolt) demonstrating applied AI in information extraction and search.
- Integrated AI workflows into production web apps, improving marketing automation and analytics (WineConX).
- Researching LLM agents, prompt optimization, and scalable AI architectures for SaaS systems.

Work Experience

Comic Sense | Founder & CTO (2025 – Present)

Founded Comic Sense, a new-generation design and technology studio where creativity meets software engineering. Leading the technical direction and software architecture across projects in AR/VR, custom web development, and AI-integrated design.

- Architected AR/VR and web platforms with AI-powered creative tools for clients and partner studios.
- Integrated modern full-stack and AI-driven systems into product development workflows.
- Defined and executed the technical roadmap, ensuring scalability, maintainability, and design precision.

Freelancer | Fullstack Developer and AI Strategist (2020 – Present)

Deliver full-stack development and AI integration for startups, NGOs, and creative studios. Combine strong architectural design with applied AI solutions to build scalable, visually polished applications.

Selected Projects:

- Prizma Foundation – Helped this EU-focused NGO apply AI for sustainability and human-rights initiatives, advising on data-driven strategy and prototyping AI-assisted research workflows.
- Typoflow – Built the website for Hungary's leading typography biennial to manage content and conference schedules with a simple CMS.
- Stella Stúdió – Created a publishing platform for an educational magazine series, allowing editors to publish and manage digital content independently.

Career Break | Independent Projects & Learning (2025)

Took time to focus on personal growth, research, and prototyping. Studied AI, machine learning, and cloud architecture, and developed projects combining creative and technical expertise.

- Uncle Oscar App – Family-only photo and story-sharing app (Next.js, TypeScript, MongoDB, AWS). Planned as open-source SaaS.
- nvolt – Co-developed an early RAG-based knowledge extraction tool with LangChain, FastAPI, and OpenAI API.

WineConX | Tech Lead (2022 – 2024)

- Built an AI-driven influencer analytics system for 200,000+ Instagram profiles, reducing manual vetting time by 50+ hours per campaign.
- Developed AI-powered content generation tools to automate social media writing tasks.

- Led full-stack development, mentoring engineers and aligning tech direction with business goals.

Linearity / Vectornator | Senior Fullstack Developer (2021 – 2022)

- Improved API connectivity across website, devices, and analytics for a design tool with 10M+ users.
- Built microservices with Webflow, NestJS, and TypeScript to streamline data workflows and integrations.
- Contributed to Linearity Curve (Vectornator) and modernized infrastructure for scalability.

General Electric | Senior Software Engineer (2016 – 2021)

- Created a mobile turbine blade quality tracking system, saving tens of thousands of dollars annually.
- Developed a distributed AWS policy enforcement platform with 99.9% uptime.
- Containerized legacy apps on Azure, implementing CI/CD and SonarQube integration.
- Built an IT asset management system for 300k+ assets, and internal gamified tools for employee engagement.

Epam | Frontend Developer (2015 – 2016)

- Developed interactive BI dashboards for major enterprise clients.
- Enhanced data visualization workflows using JavaScript, Python, and Tableau.
- Automated ETL pipelines with KNIME and optimized cross-team analytics delivery.

Haworth | Software Engineer (2014 – 2015)

- Automated multilingual catalog production using Adobe InDesign API and SQL integration, saving significant labor costs.
- Implemented 3D spatial automation workflows using pCon Planner geometry.
- Built PHP and C# scripts to integrate data-driven publishing pipelines.

Leadership & Mentoring

- TechLabs Mentor (2022 – Present) – Mentored developers in JavaScript, React, and Node.js; led code reviews and workshops.
- Metropolia University Project Mentor (2024) – Guided students developing a Unity + Node.js online game; supported technical design and problem-solving.

Education

- B.Sc. in Mathematics & Software Engineering – Eszterházy University, Hungary.
- Post-Graduate Diploma in Typography – Metropolitan University, Budapest.

Languages

- English – C1
- German – B1 (in progress)
- Hungarian – Native