

Fullstack Developer & AI Engineer

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I'm a fullstack developer at NetGenium. I work across the whole lifecycle – sitting down with clients, analysing their needs, designing the solution, and then shipping it across frontend, backend and infrastructure. Over the past two years a growing part of that work has been bringing AI into our products and our own workflow.

Lately my focus is AI engineering: RAG pipelines over real client implementations, MCP servers, and automating processes that used to eat entire days – from customs clearance for the Czech Post to resolving client tickets, where the AI has the concrete codebase on hand and can find and fix the reported issue itself.

EXPERIENCE

Fullstack Developer & AI Engineer · NetGenium Jan 2021 – Present

Enterprise applications on a low-code platform, client delivery, and integrating AI into the company's products and internal workflow.

- Integrated AI across the platform end to end – from data and retrieval to the tools and interfaces used by developers and clients.
- Built RAG pipelines for the LLMs we use with clients, grounding answers in each client's real implementation so the models reason over actual code and data.
- Automated internal processes with AI: generating applications in our low-code framework, and near-automatic client-ticket resolution – the AI has the concrete implementation on hand, so it locates the reported problem and fixes it.
- Automated the customs-clearance process for the Czech Post and built/customized their PostShop (postshop.cz) storefront.
- Built internal MCP servers and database-backed MCP servers for clients; currently building the new Hello.cz website together with a partner studio.

TypeScript · JavaScript · C# · SQL · React · Claude API · RAG · MCP

Research Internship (exchange) · TU Wien Feb 2023 – Jun 2023

Research internship in Vienna during an exchange stay at TU Wien.

- International research experience alongside a demanding CS program.

IT Administrator · Health centre Jan 2018 – Dec 2020

IT administration and support during university studies.

EDUCATION

Czech Technical University – FIT Sep 2019 – Jun 2025

Ing. (Master's), Software Engineering

SKILLS

Languages:	TypeScript, JavaScript, Python, C#, C/C++, Java, SQL
Frontend:	React, Next.js, Vue, Astro, Tailwind CSS, HTML/CSS
AI Engineering:	AI agents & tool use, RAG pipelines, MCP servers, Claude API, Claude Agent SDK, OpenAI API, Sandboxed code execution, Prompt engineering
Backend & Data:	Node.js, FastAPI, .NET, PostgreSQL, Oracle, Redis
Infrastructure:	Docker, Kubernetes, Google Cloud, Git, CI/CD
Client work:	Requirements analysis, Solution design, Workshops & presentations, Technical writing
Spoken languages:	Czech (Native), English (Fluent · C1), French (Intermediate · B1), German (Basic · A2)