Martin Sivák



AI Engineer · LLM Agents & Applied ML · Healthtech Co-Founder

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PROFILE

AI engineer who ships: four years across fintech, insurance, e-commerce and healthtech, currently building agentic LLM systems at **Bloomreach** and co-leading **MediBit**, an AI startup for oncology. Comfortable across the whole path from research to product: data, model, agent workflow, web front end, and the stakeholder conversations that get it deployed. Magna cum laude (top 2%) in Computer Science; co-author of an IEEE paper on migrating a **Fiserv** event gateway to serverless AWS with Bedrock-based diagnostics.

CORE STRENGTHS

Applied AI	Agentic LLM workflows, RAG, knowledge graphs, deep learning, computer vision
Engineering	Python, TypeScript, R, Java; LangChain, Google ADK; PostgreSQL; Vue / Nuxt
Cloud	AWS serverless and event-driven: Bedrock, Lambda, Step Functions, EventBridge, Kinesis, SQS, DynamoDB, S3, CloudWatch, X-Ray
Product & leadership	Pilot strategy, stakeholder alignment, go-to-market, team leadership, explaining complex ideas to non-technical audiences

EXPERIENCE

Software Engineer Intern (AI) · Bloomreach
Jul 2025 – Present

Bratislava, hybrid · e-commerce personalisation platform

- Build **Clarity**, Bloomreach's agentic conversational shopping assistant, used by retailers to give shoppers personalised, human-like product advice.
- Work on agentic workflows and data processing, and bring recent research into production, in a multicultural global engineering team.

Co-Founder & Co-CEO · MediBit
Jul 2025 – Present

AI software for healthcare · medibit.tech

- Co-lead a five-person team building **MB Trials**, an AI platform that matches oncology patients to clinical trials and helps hospitals, CROs and sponsors recruit eligible patients faster.
- Own pilot strategy, hospital and partner negotiations, and the roadmap from prototype to deployment; run product vision and people management.
- Act as project manager for client work with **Larinta** (formerly Shoelessly) on an AI throat-scanning app for ENT telemedicine: scope, timeline, client communication and team coordination.
- Took part in AceOn accelerator, Caelestinus incubator, Future Founders Slovakia and Lifbee Academy; designed and built the company website.

Web Developer · smartAIm
May 2024 – Oct 2025

Bratislava, hybrid

- Delivered responsive client web applications end to end, from Figma design to production, in Vue.js, Nuxt.js, TypeScript and Tailwind CSS.

Junior Software Developer · Zurich Insurance
Mar 2023 – Jun 2025

Bratislava, hybrid

- Developed and maintained a business-critical internal tool for business and developer teams for over two years; optimised R (dplyr, purrr) data pipelines and built dynamic HTML/CSS reports.

Software Tester · ČSOB Finančná skupina
Aug 2022 – Jan 2023

Bratislava

- Validated functionality and performance of mobile and web banking applications for one of Slovakia's largest banks.

SELECTED PROJECTS & WINS

Fiserv: serverless event gateway with GenAI diagnostics
2025 – 2026

- Six-person team combining engineering and coordination, migrating a bare-metal Kubernetes event gateway for a global fintech to event-driven serverless AWS (Kinesis, EventBridge, Lambda, SQS, Step Functions, DynamoDB, S3).
- Added an Amazon Bedrock pipeline for automated JSON issue analysis with deterministic fallbacks; improved peak throughput, elasticity and diagnostic coverage. Published at **IEEE IIT.SRC 2026**. DOI

Rakathon 2026: 3rd place (InterSystems Challenge) & Microsoft Challenge Award · Prague — Oct 2026

Czech oncology hackathon with the General Health Insurance Company (VZP) as main partner · project page

- Built **Cesta Pacienta**, a clinical-workflow MVP for Czech Comprehensive Oncology Centres that carries a suspected cancer patient from the GP through the oncology coordinator and the multidisciplinary tumour board, and back to the GP, without information loss.
- An LLM extracts handover data from heterogeneous medical reports, and every value carries a verbatim quote verified against the source and highlighted in the original. Deterministic rules flag missing documents, contradictions and critical lab values.
- Designed for clinical governance: a human confirms every value, tumour-board write-ups are time-correct to the meeting date, the national ID is pseudonymised, and GP receipt is logged in an append-only audit trail. Built on synthetic data.

Startup Weekend Žilina: winners · Žilina — Oct 2025

- Joined with two MediBit co-founders and formed an eight-person team around a new idea: an AI tool that estimates employee burnout risk from communication patterns, workload signals and short questionnaires, with recommendations for managers and HR.
- In 56 hours: interviewed about 20 medium and large companies, built a working MVP, mapped competitors and market size, and defined the business model and go-to-market strategy.

Hacknime.to Hackathon: winners · Revúca — Feb 2025

project page

- Built a digital fair portal for the City of Revúca that simplifies event administration: online applications, reservations and payments, a vendor app, and QR-code check-in.

European Healthcare Hackathon · IKEM, Prague — 2025

- Solved the digital-pathology challenge: automated identification and quantification of Ki-67-positive cells in IHC-stained tissue images, the proliferation index pathologists use in tumour grading.

EDUCATION

MSc Intelligent Software Systems, FIIT STU — thesis: agentic AI for DNA variant interpretation — Sep 2025 – Jun 2027

Erasmus+ Exchange, University of Eastern Finland — Computer Science — Jan – Jun 2026

BSc Computer Science, FIIT STU, magna cum laude — GPA 1.30 (Slovak scale, 1 = best); Dean's Commendation — Sep 2021 – Jun 2025

LEADERSHIP & DEVELOPMENT

Nexteria Leadership Academy · Bratislava — Sep 2026 – Present

- Selective programme in leadership, communication and entrepreneurship: intensive courses and workshops led by industry professionals, real-world projects for leading companies, and a personal mentor.

Study Programme Board & Disciplinary Committee · FIIT STU — 2024 – Present

- Student member of the Study Programme Board for all faculty programmes (2024 – present), representing students in decisions on curricula and programme quality.
- Student member of the Faculty Disciplinary Committee (2024 – 2025).

Mentor · AjTyvIT — May 2026 – Present

- Mentor with a Slovak non-profit (the name means "you too in IT") that motivates, educates and supports girls and women in IT careers, helping close the gender gap in tech.

Private STEM Tutor · meet'n'learn — Feb 2021 – Present

tutoring profile

- Over five years of one-to-one tutoring in mathematics, computer science and physics for high-school and university students, young adults and career changers.

Becoming an Effective Leader — Harvard Business School Online — Jul 2026

Oxford Machine Learning Summer School — AI for Global Goals — Oct 2025

Neural Networks and Deep Learning — DeepLearning.AI · Data Essentials, Zurich Insurance (Oct 2023)

BEYOND WORK

Slovak Floorball Champion · team award — 2019 – 2026

- Slovak champions in 2024/25, vice-champions four times (2019/20, 2021/22, 2022/23, 2023/24) and 3rd place in 2025/26: years of top-level team sport alongside study and work.

Biology Olympiad, category A (project section): 1st place regional, 7th national · 54th year — 2019 – 2020

- Research project on the resistance of testicular cancer to cisplatin chemotherapy, supervised by Dr. Dana Jurkovičová (Slovak Academy of Sciences). Won the Bratislava regional round and placed 7th in the national round.

Languages: Slovak (native), English (C1).