

VIKTOR ZAIKA

PRODUCT AND SOLUTIONS ARCHITECT | AI, DATA & PLATFORM PRODUCTS

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PROFILE

Product Manager and Solutions Architect with 10 years across AI/ML, data, and production software, combining product discovery, executive stakeholder management, technical strategy, and end-to-end delivery. Led product and solution definition for enterprise platforms including a >\$25M global AI/ML platform, an AI-powered travel product targeting 1.5M users, and regulated clinical data products. Experience with heavily regulated fields (healthcare, insurance). Translating ambiguous business and user needs into clear requirements, delivery roadmaps, balancing trade-offs, and measurable outcomes, with deep technical fluency across LLMs, ML platforms, cloud, APIs, and data infrastructure.

PRODUCT & TECHNICAL STRENGTHS

Product Strategy & Discovery: Product vision, stakeholder and user discovery, requirements definition, prioritization, MVP scoping, roadmap development, business and technical trade-offs

Product Delivery & Leadership: Cross-functional leadership, executive communication, investor pitches, Agile/Scrum, delivery planning, risk and dependency management, release quality, stakeholder alignment

AI / Data Products: LLMs, RAG, AI agents, ML platforms, experimentation, model quality, data products, responsible AI, security and governance in regulated environments

Technical Fluency: Python, SQL, Databricks, MLflow, Apache Spark, AWS, Azure, APIs, microservices, CI/CD, cloud infrastructure, data pipelines

EXPERIENCE

AI/ML Consultant (Delivery and Sales) — Takeda, Zurich, Switzerland — Jan 2025 – Present

- Owned product and delivery scope for AI/ML capabilities on a global platform representing >\$25M in investment, supporting 25+ production sites and 200+ data scientists.
- Led stakeholder discovery and translated business, user, scalability, and quality needs into solution requirements, delivery priorities, and platform standards.
- Owned the end-to-end lifecycle from requirements and solution design through implementation, deployment, and production monitoring using Databricks, MLflow, and Python.
- Improved model-training throughput by approximately 60% by prioritizing pipeline redesign, caching, and MLOps improvements around the highest-impact bottlenecks.
- Introduced LLM-agent capabilities with strict quality, security, and governance controls, balancing product value with regulatory and operational risk.
- Raised release confidence by establishing approximately 80% automated test coverage across ML and system code, including unit, integration, and data-quality validation in CI/CD.

Solution Architect — TCS Mobility (TCS Suisse), Bern, Switzerland — Jan 2024 – Jan 2025

- Led product and technical vision for an AI-powered travel platform at a new TCS Suisse venture, targeting 1.5M existing users while expanding to a younger demographic.
- Acted as the primary product/technical counterpart for external investors, the C-suite board, engineering, marketing, and customer teams, aligning stakeholders on scope, feasibility, and priorities.
- Led two successful funding pitches, presenting the product architecture, delivery roadmap, investment rationale, and key technical trade-offs to investors and executive leadership.
- Drove build-vs-buy and cost decisions across third-party APIs, lightweight in-house solutions, and AWS capacity, meeting SLOs while controlling rollout costs.
- Shaped and delivered real-time recommendation, search, and data-processing capabilities across ML-backed microservices and production web/mobile interfaces.
- Coordinated a core team of 5 engineers plus cross-functional partners to deliver iterative releases under tight timelines.

Project Lead — Insel Gruppe AG, Bern, Switzerland — Mar 2021 – Mar 2025

- Led discovery with clinical researchers and biostatisticians, translating complex research questions into product requirements, computational experiments, data pipelines, and validated models.
- Built and evolved large-scale synthetic-data capabilities producing millions of realistic patient trajectories with validated statistical fidelity to real-world populations.
- Ran experiments and pilots to validate quality, throughput, and assumptions on real and synthetic datasets; findings directly informed clinical decision-making and policy.
- Advised domain stakeholders on data quality, experiment design, evaluation methodology, and regulatory standards, bridging scientific goals with engineering constraints.
- Delivered automated Databricks and Spark pipelines for ingestion, transformation, validation, and reporting at scale.

Software Team Lead — GuryCube — Oct 2016 – Feb 2019

- Started as Software Developer increasingly taking the product and communications side
- Led discovery, requirements, solution demos, and ongoing product advisory for 3 international clients across 4–5 deep-tech computer-vision and security engagements.
- Owned end-to-end delivery across multiple concurrent projects in a team of 4, covering scope, architecture, timelines, stakeholder communication, and release execution.
- Identified expansion opportunities, proposed additional solutions, and built post-MVP roadmaps with clients to extend product value beyond initial delivery.

EDUCATION

MSc (Distinction), Applied Mathematics and Informatics — University of Bern — 2018–2020

MSc (Distinction), Applied Mathematics and Informatics — Higher School of Economics (HSE) — 2018–2020

PhD, Applied Mathematics — Universität Bern — 2021

PRODUCT VENTURE

Oxprompt — Innosuisse Top 25 Project, Bern, Switzerland (Jan 2026)

Pitched and selected among the top 25 startup projects in the Innosuisse innovation program. Oxprompt is a data-privacy and compliance enforcement layer for LLMs, enabling enterprise use of models such as GPT-4 while reducing data-leakage risk under the EU AI Act.

Oma — Innosuisse and Spitex Project, Bern, Switzerland (Jan 2022)

Digitalization in healthcare project in conjunction with Spitex and Innosuisse. Pitched to the leading Angels in Switzerland and healthcare major actors like Spitex and Inselspital, secured support and pilot rollout.

PUBLICATION

“Optimal timing of a colonoscopy screening schedule depends on adenoma detection, adenoma risk, adherence to screening and the screening objective: A microsimulation study.” PLOS ONE, 2024. PMID: 38787836. Open-source model: github.com/kittytrillah/CMOSTv3_mod

LANGUAGES

English (Bilingual), Russian (Bilingual), German (Professional), French (Intermediate)