



NIKOLAI NOSSULENKO

Fractional CTO & Product Leader | Tech Lead

DETAILS

Contact

Brasschaat, 2930, Belgium
nikolai@nossulenko.com

Nationality

Belgian

Driving license

B

Date / Place of birth

14/01/1992

Rudny

PROFILE

Technology and Product Leader with over a decade of experience and a deep, hands-on understanding of the entire digital product lifecycle. Starting as a fullstack developer, I became passionate about mastering every phase of digital product development from early-stage ideation and facilitating workshops, translating complex business needs into clear product backlogs, shaping initial wireframes, and defining proofs of concept, to driving UX/UI design, applying rigorous validation, executing Agile methodologies, and ultimately architecting and designing enterprise-level infrastructures and managing products at scale. In today's exciting era of AI, I actively explore and apply how AI can be leveraged throughout this process to enhance decisionmaking, accelerate delivery, and create smarter, data-driven workflows.

As a Tech Lead, I've learned that technology alone is not enough, you can have great projects and brilliant engineers, but only through clear vision and strong leadership can teams achieve meaningful, measurable outcomes. I excel at building and enabling highperforming, crossfunctional teams setting direction, aligning technical strategy with business objectives, and fostering a culture of accountability and innovation. I bring strategic insight, governance, and operational discipline to ensure that teams deliver not only products but also tangible, measurable business results.

CORE SKILLS

Product Leadership & Strategy

Digital Product Management, Ideation, Roadmap Definition, KPI Setting, Go-to-Market Planning

Fractional & Interim CTO Expertise

Technical Strategy, Governance, Architecture Oversight, Executive Reporting

AI & Automation Integration

LLMs, Workflow Automation, Custom AI Agents, AI-Assisted SDLC

Agile Transformation & Team Leadership

Agile/Scrum Leadership, Cross-Functional Team Management, Remote/Offshore Teams

Operational Excellence

FinOps, Cost Optimization, Cloud Infrastructure (AWS Lambda, S3, CloudWatch, Textract)

Quality & Delivery Management

QA/QC Management, Release Management, Requirements Traceability

FullStack Execution & Product Development

Figma for prototyping and UX/UI wireframing, and I am experienced with frontend frameworks such as React.js, React Native, Flutter, Angular, Next.js, Ionic, On the backend, skilled with Node.js, PostgreSQL, MongoDB, and Firebase, with deployment and cloud expertise on Azure, AWS, Containerization using Docker.

EMPLOYMENT HISTORY

Lead engineer | Product manager, Docbyte, Gent

JUNE 2024 – MAY 2025

- Directed technical strategy and product delivery for Europe's only Qualified Trust Service Provider (QTSP), ensuring compliance with EU trust and identity standards in a highly regulated SaaS environment.
- Pioneered AI-driven automation and cloud monitoring systems using AWS CloudWatch, slashing issue resolution times for customer support teams by enhancing real-time infrastructure visibility.
- Led cross-functional teams to launch new cloud-native SaaS products from concept to market, integrating secure system design and audit-ready processes for ISO 27001 certification.
- Contributed to executive decision-making in management meetings, aligning technology roadmaps with long-term business objectives for measurable impact.
- Leveraged Figma for prototyping and crossplatform frameworks such as Nextjs and React native to deliver performant, scalable mobile solutions efficiently.

Management Partner | Product Manager, The Product Architects, Antwerp

AUGUST 2023 – JUNE 2024

- Spearheaded development of earlystage MVPs with a UKbased engineering team, managing the full product lifecycle from ideation through technical handover, including infrastructure design, cloud architecture, and integration of AI-driven features to accelerate market differentiation.
- Ensured highquality, ontime releases by aligning crossfunctional efforts, leveraging AI-assisted workflows, scalable backend design, and modern DevOps practices to optimize UX iterations and delivery sprints.
- Bridged business goals with technical execution, delivering productionready solutions enhanced by custom AI model development, automation pipelines, and resilient infrastructure that consistently met client expectations and market demands.
- Leveraged crossplatform mobile frameworks such as Flutter and React Native to deliver performant mobile solutions efficiently.
- Figma was used extensively to design, prototype, and validate products, enabling rapid iteration and clear communication of UX/UI concepts.

Product Manager , qualium-systems.com, Belgium / Ukraine

JULY 2018 – FEBRUARY 2023

- Oversaw two largescale software projects, leading a 30person team (developers, designers, QA) across web, mobile, and 3D platforms using React Native, Flutter, Node.js, and .NET, while architecting cloud infrastructure and integrating large language model (LLM)-powered features to enhance product capabilities.
- Defined project scope, timelines, and budgets in an Agile Scrum environment, mitigating risks and ensuring quality through hands-on technical direction, infrastructure design, and alignment with key stakeholders.
- Implemented DevOps pipelines, AI-assisted testing workflows, and requirements traceability, driving predictable delivery and enhancing collaboration across distributed international teams.

- Figma served as a core tool for designing and testing product ideas, streamlining iterations and ensuring shared understanding of user experience goals.

Lead (full-stack) developer, carlvandavelde.be, Schilde

SEPTEMBER 2017 – SEPTEMBER 2018

- Designed and developed cross-platform mobile and web applications using React Native and Ionic, AngularJS, React Native, and Laravel/Vue, ensuring seamless user experiences across devices.
- Built and integrated RESTful APIs with Node.js and MySQL, optimizing performance through debugging and system troubleshooting for robust digital solutions.
- Focused on end-to-end delivery, maintaining high reliability and responsiveness in both frontend and backend architectures.

Full-stack developer, digipolisantwerpen.be

JULY 2016 – JULY 2017

- Developed scalable web applications using the MEAN stack (MongoDB, Express, Angular, Node.js), integrating UI components with backend services for optimal performance.
- Designed RESTful APIs and ensured system reliability in Agile Scrum and Kanban environments, collaborating with cross-functional teams using Git for version control.
- Gained foundational expertise in full-stack development, contributing to feature implementation and system scalability for public sector projects.

Founder, kaizenproject.be, 2000 Antwerpen

JUNE 2016 – PRESENT

- Established a boutique consultancy delivering strategic product development and technical leadership, supporting startups and scaleups in building and scaling digital solutions with AI at their core.
- Guided agile transformations and introduced advanced AI-enhanced workflows, including Retrieval - Augmented Generation (RAG) systems, custom LLM model design, and automation pipelines coaching teams to adopt tools like Cursor and AI-powered CI/CD for faster, smarter development cycles.
- Combined hands-on coding with high-level strategy, prototyping SaaS products, architecting AI-driven infrastructures, and driving business value through innovative technology implementations such as custom model training, vector database integration, and automated data workflows.
- For Hybrid applications, leveraged frameworks like Next.js, Angular, React Native, Flutter, or Ionic to deliver crossplatform solutions efficiently.
- Extensive use of Figma enabled rapid prototyping, continuous validation of ideas, and clear communication of UX/UI direction.

EDUCATION

Professional Bachelor(ICT Electronics), AP Hogeschool

SEPTEMBER 2014 – SEPTEMBER 2017

Software development & Cyber Security

LINKS

[Personal website](#)

LANGUAGES

Dutch; Flemish

English

Russian

REFERENCES

References available upon request

CURRENT CERTIFICATE COURSES

Digital MBA, CTO Academy

TECH STACK & TOOLS

AI Tools & Assistants

Cursor (AI Coding Assistant), Claude, ChatGPT (GPT4/3.5 and finetuned models), Perplexity, Windsurf, DeepSeek, Microsoft Copilot, Proximity AI, Gemini (Google AI)

Machine Learning & AI Frameworks

PyTorch, TensorFlow, Hugging Face Transformers, LangChain, OpenAI API, spaCy, NLTK, Microsoft Azure AI Services (Cognitive Services, Azure OpenAI)

LLM Ecosystem & Advanced AI

Custom LLM Development & FineTuning, RAG (RetrievalAugmented Generation) Pipelines, Vector Database Integration (Pinecone, FAISS, Weaviate, ChromaDB), Claude Anthropic Models, ChatGPT Models, DeepSeek LLMs, Gemini AI

NLP & LLM Ecosystem: Hugging Face Transformers, LangChain, OpenAI API, spaCy, NLTK

Vector Search & Memory

Pinecone, FAISS, Weaviate, ChromaDB — designing and integrating vector databases for semantic search, embeddings, and memoryaugmented AI systems

Data Processing & Analysis

Pandas, NumPy, OpenCV, Dask, Matplotlib, Seaborn

Cloud & Deployment

AWS (S3, Lambda, SageMaker, CloudWatch, Textract), Microsoft Azure, GCP, Docker, Kubernetes, FastAPI, Flask

Prototyping & Product Design

Figma, Bolt, V0 (Vercel Visual Builder) — endtoend product development from lowfidelity wireframes to validated MVPs

Frontend Development

React, React native, Flutter, Angular, Next.js, Vue.js, Ionic

Backend Development

Node.js, Java, Spring, .NET, Laravel, Azure, AWS, Firebase, Vercel, Postgress, MongoDB, Docker

DevOps & CI/CD

AWS, Vercel, Git, Jira, Confluence — pipeline automation, release management, crossteam collaboration

Testing & Quality Assurance

Jest, Cypress — automated test coverage and QA strategy

COMMUNITY & INTERESTS

- Memberships: CTO Club Belgium, CTO Academy
- Hobbies: Sport, Traveling, Reading, Sport Shooting
- Featured Article: Gazet van Antwerpen (Cybersecurity Research on Real Estate Scam)

ARTICLES

Gazet van Antwerpen

<https://www.gva.be/incoming/antwerpse-student-ontmaskert-immo-oplichter/39527505.html>