Mike Ivanov



CTO and Software Architecture Leader

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GitHub | Research publications

Professional profile

Technology leader with 15+ years in software engineering and CTO experience across four startups. Led teams of up to 20, including team leads and senior engineers, with responsibility for hiring, performance, recruitment budgets and engineering standards. Delivered production AI and data platforms, with technical depth in distributed backends and robotics.

Core expertise

Architecture and AI: Distributed systems, microservices, gRPC, data ingestion, RAG, conversation context and response verification
Engineering: Go, Python, C++, TimescaleDB, Docker and ROS.
Languages: Russian – native, English – professional, German – beginner.

Professional experience

Thalos Ai Coach GmbH, Vienna https://thalos.at/ 2025 – now
CTO, Team Lead | Team of 8. Lead technology and engineering for a live coaching platform with a 100 GB/day wearable-data pipeline and terabytes of stored data. Delivered RAG-based coaching and app/device support, image-based meal recognition and detailed workout reports. Partner with DevOps on Terraform-managed AWS infrastructure for identity, APIs and data ingestion, with separate production and development accounts and documented architecture decisions. Contributed to raising EUR 1 million in investment.

Flexam Tech GmbH, Vienna https://flexam.tech 2025 – now
CTO, Co-founder | Team of 7. Lead technical development across parallel manufacturing projects and expand the engineering team. Develop AI-assisted workflows for slicing, settings selection and coordinated G-code edits.
The company received EUR 600k in FFG grant funding.

Aeolus Robotics, Vienna https://aeolusbot.com/ 2021 – 2024
Team Lead, Architect | Team of 3. Built the gRPC backend core and enabled cloud scaling for humanoid robots. Introduced a behaviortree framework that increased the number of robot behaviors delivered per sprint. Developed and communicated a long-term technical vision covering architecture, processes and delivery risks.

Dvizz, Innopolis 2019 – 2021
CEO, CTO | Team of 20. Owned product and technical direction for a social platform built around shared interests. Led a multidisciplinary team spanning backend, frontend, mobile, DevOps, bots and design. Built the Go microservices backend and improved the mobile applications.

Epit3d, Innopolis 2018 – 2020
CTO | Team of 6. Led research and software development for a five-axis 3D-printing startup and developed its slicing software.

Innopolis University, Robotics Development Center 2017 – 2021
Team Lead, Researcher, Teaching Assistant | Team of 20. Advised autonomous-driving, drone and manipulator teams on architecture and technical

direction. Reworked software for the AR601 humanoid robot and built digital twins with tests and continuous integration. Developed and delivered robot-programming lectures and practical classes.

Juno, Minsk 2015 – 2017
Senior Go Developer. Fourth member of the backend team, developing core Go services for a ride-hailing platform that got 10% of Uber's share in half a year.

IBA, Minsk https://iba.by 2010 – 2015
Team Lead, Senior Java Developer | Team of 5. Led a five-person development team, contributing to IBM projects and internal Java products.

Education

WU Executive Academy, Vienna 2024 – 2025
Carlson School of Management, Minnesota, USA
Global Executive MBA program.

Innopolis University, Innopolis 2018 – 2022
PhD: The efficient and safe architecture of robotics applications. Research in robotics platforms, communication protocols, cloud robotics and IoT.

Yandex School of Data Analysis, Minsk 2014 – 2016
Advanced study in algorithms, machine learning, computer vision and distributed data processing, including Hadoop MapReduce.

Belarussian SU of Informatics and Radioelectronics, Minsk 2007 – 2012
Specialist degree in Artificial Intelligence, with a specialization in Systems Engineering.

Interests

Robotics, difficult puzzles, sport programming, saxophone, table tennis, snowboarding, bioinformatics.