

IVAYLO TOSKOV

Director Of Software Engineering

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Summary

Engineering leader with a strong software engineering background and proven experience building teams, designing scalable software systems, and driving technical strategy. I combine hands-on expertise in software architecture with people leadership, product thinking, and stakeholder management to successfully deliver complex projects. Previously, I founded and led the Bulgarian R&D office at LatticeFlow, contributing to AI-powered products and cloud infrastructure. Recipient of the **Forbes 30 Under 30 Bulgaria** award for contributions to technology and entrepreneurship.

Experience

- **DHR Engineering**

Plovdiv, Bulgaria
03/2026 - Present

Director Of Software Engineering
 - Lead the Software Engineering organization, overseeing team performance, technical strategy, and delivery execution.
 - Drive the architecture and design of complex software systems, from requirements definition through implementation.
 - Establish the long-term technology roadmap and make strategic decisions on platforms, tools, and engineering practices.
 - Act as the primary technical liaison for customers and business stakeholders, combining project management with technical leadership to ensure successful product delivery.
- **LatticeFlow**

Sofia, Bulgaria
10/2021 - 11/2025

Executive Director
 - Founded the Bulgarian RnD branch of the company and headed the office
 - Set up the CI/CD infrastructure from scratch for the company's AI-powered application
 - Designed the SaaS version of the product from scratch
 - Contributed to various core components related to the infrastructure that utilised LLMs
 - Collaborated closely with AI researchers on the backend integration of ML capabilities
- **Layer**

Remote
09/2020 - 10/2021

Senior Software Engineer
 - Laid foundational work on the core MLOps functionality for training, managing, and deploying machine learning models
 - Designed and implemented the billing system of the company
 - Contributed to various improvements to the infrastructure using AWS and Terraform
 - Technologies: Java, Python, AWS, PostgreSQL, Kubernetes, MLflow, Terraform
- **Leanplum**

Sofia, Bulgaria
10/2017 - 02/2020

Senior Software Engineer
 - Served as the technical lead for Leanplum's A/B testing functionality
 - Contributed to the development of a complex reporting engine that handled terabytes of data per day and had a latency SLA of 300ms
 - Set up a new team responsible for Email delivery, performed interviews and onboarded new engineers
 - Managed an HDFS cluster with 200+ machines and 2+ petabytes of data
 - Worked on the event management of an ingestion engine that handles 27B+ QPS
 - Setup and managed an Apache Spark cluster for a machine learning algorithm for sending messages in the optimal time for users
- **Facebook**

London, United Kingdom
06/2017 - 09/2017

Software Engineer Intern
 - Implemented an anti-fraud algorithm for video ads delivery based on rate-limiting ad requests
 - Built a system for end-to-end testing of video ads
 - Rewrote multiple metrics for video view time and impressions based on thorough data analysis
 - Introduced various improvements to a system for debugging video related metrics

Education

- **ETH Zurich**

Zürich, Switzerland
10/2015 - 06/2017

Master of Science (MSc) | GPA: 5.68 / 6.00
 - Thesis: SIMD intrinsics on managed language runtimes. Published at [CGO'18](#)
 - Received a Master Scholarship for extraordinary academic performance
 - Worked as a Software Engineer Intern at Leanplum focusing on BigData performance improvements
- **Vienna University of Technology**

Vienna, Austria
09/2012 - 06/2015

Bachelor of Science (BSc) | GPA: 1.28 / 1.00
 - Worked as a teaching assistant in 2 subjects
 - Worked as a Software Engineer Intern at Tetracom, focusing on hybrid mobile application development