

# Viktor Tiulpin

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## Profile

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5+ years designing and operating distributed systems; passionate about solving diverse challenges, driving product innovation and research; proven at slashing CI runtimes by 50% and delivering high-impact features

## Experience

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**Software & Infrastructure Engineer**, JetBrains N.V. May 2022 – present

joined as a software engineer in the Qodana team, then switched to the AI Platform team to work on the infrastructure

- working on the design and maintenance of the distributed multi-regional JetBrains AI infrastructure
- implemented Qodana CI extensions CircleCI, GitHub Actions, Azure Pipelines adopted by 10K+ open-source projects
- created Qodana CLI (Go) to run Qodana on different platforms and architectures with minimal efforts (1M+ downloads)
- constructed reproducible Docker builds for Qodana images, standardizing release processes (1M+ Docker pulls)
- led a 3-person team to develop and maintain Qodana security and compliance features, ensuring robust code quality

**Software & Infrastructure Engineer**, IntelliJ Labs Co Ltd. (JetBrains) July 2020 – Feb 2022

worked on a newly launched product (Qodana) for static code analysis and code quality management

- developed new features: license audit, clone finder, enhancing code analysis capabilities for 3000+ users
- coordinated Qodana marketing efforts, launched its Twitter and website to drive early adoption among 1000+ beta users
- deployed a data pipeline for large-scale analytics of all public GitHub repositories (~2.8M repos)

**Machine Learning Engineer**, Center of Reactive Programming Feb 2019 – June 2020

built computer vision and natural language processing solutions for various clients

- trained object detection and text classification neural networks for real-world business problems
- collaborated with industry partners to integrate ML prototypes into production, improving workflow efficiency
- boosted object detection algorithm precision by ~30% by data augmentation and transfer learning

## Skills

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**Programming & Algorithms:** Go · Python · Kotlin · TypeScript · Java · Data Structures & Algorithms · System Design

**DevOps and Infrastructure:** Docker & Compose · k8s · Terraform · AWS · GCP · Monitoring (Prometheus, Grafana)

**CI/CD and Version Control:** git · GitHub Actions · Azure Pipelines · GitLab CI · CircleCI · Jenkins · TeamCity

**Machine Learning:** PyTorch · TensorFlow · Scikit-learn · OpenCV · Hugging Face · MLflow · Data Science

**Databases and Message Brokers:** PostgreSQL · MySQL · Redis · Kafka

**Spoken Languages:** English · Ukrainian · Russian · Dutch (A2)

## Education

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**Computer Science Center**, competitive admission bootcamp in Software Engineering Sept 2020 – Jan 2022

- mlcourse.ai: 8th/2360 participants · stepik: algorithms · c++ · java · python · databases · coursera: Stanford ML
- kaggle expert (ex. top 500): PANDA (13th/1010) · Bengali.AI (46th/2059) · TReNDS (31st/1047) · RSNA (48th/1345)

**Saint Petersburg Polytechnic University (SPbPU)**, B. Sc. in Computer Science Sept 2016 – July 2020

## Other Activities

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volunteer @ 911ua.org · conference organizer & tutor @ v.tiulp.in · open-source contributor