ANDREY VOLKOV

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EXPERIENCE

Tinkoff Bank Asia
Middle Software Engineer

Nov 2021 – Present
Manila, Philippines (Remote)

- Architected & developed from scratch multiple microservices for banking business processes
- Designed & implemented Gitlab CI/CD pipelines for Java and Python applications (build docker image & deploy to AWS K8S cluster)

Tinkoff Bank
Middle Software Engineer

Feb 2021 – Oct 2021
Moscow, Russia

- Architected & developed the system for auditing and tracing applications for tracking each step of business processes
- Developed high load applications (15-20k RPS) for processing audit and tracing data and persisting it to ClickHouse in real time
- Significantly decreased the database size using compression techniques and increased performance using special persisting approaches
- Reduced multiple errors by developing integration and performance testing for critical high load applications
- Reduced the amount of resources consumed in K8S cluster by analyzing and adjusting the applications' memory management
- Conducted technical interviews for 10+ candidates for the position of Junior developer & coached 6 new employees

Tinkoff Bank
Junior Software Engineer

Sep 2019 – Jan 2021
Moscow, Russia

- Decreased the percentage of lost messages from 30% to 0% by optimizing the high load Kafka client
- Automated errors handling by creating a service for classifying and handling business applications' errors
- Ensured application security by designing & implementing the contracts for OAuth 2.0 using Keycloak and Spring Security
- Implemented monitoring & alerting using Micrometer, Grafana, Prometheus, Slack
- Designed & implemented Kotlin DSL for TeamCity pipelines (build docker image & deploy to K8S cluster)
- Designed & developed multiple internal frontend applications on Angular
- Developed internal FaaS (serverless) service based on FN Project

Tinkoff Bank
Intern Software Engineer

Feb 2019 – Aug 2019
Moscow, Russia

- Significantly decreased the time of creating and deploying applications by developing several infrastructure microservices
- Simplified the applications management by developing a brand new internal system for monitoring and managing applications

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PROFESSIONAL SKILLS

- Programming: Java/Kotlin (Spring, Camunda, JUnit), Python (FastAPI, Flask, Django, PyTest), Go, TypeScript (Angular), SQL
- Databases: PostgreSQL, ClickHouse, Oracle, Redis, MongoDB, HDFS, S3, Liquibase
- DevOps: Docker, Kubernetes (Kubectl, OpenShift), AWS, Bitbucket, Gitlab, TeamCity, Unix/Linux
- Technologies: Grafana, Prometheus, Kafka, IBM MQ, Keycloak, Sonarqube, FaaS, OpenTelemetry, Testcontainers, REST, gRPC
- Data science: Tensorflow, PyTorch, Numpy, Pandas, Scikit-learn, Matplotlib, Hadoop

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EDUCATION

HSE University
Bachelor in Business Informatics

Sep 2017 – Jun 2021
Moscow, Russia

- Published two research papers on distributed microservice architecture and column-oriented DBMS ClickHouse
- Finished two project works on smart contracts for Ethereum platform and Blockchain applications

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CERTIFICATES

- Certified Kubernetes Administrator (CKA) with Practice Tests (Udemy)
- IEEE Associate Software Developer (ASD) Certificate
- DeepLearning.AI TensorFlow Developer Professional Certificate & Deep Neural Networks with PyTorch (Coursera)
- Supervised learning & Unsupervised learning (Coursera)
- Neural Networks and Deep Learning & Data-driven Decision Making (Coursera)

ABOUT ME

- I am passionate about software engineering and machine learning and always eager to learn new things
- I love creating really useful products building a consistent architecture in accordance with the best practices
- Personal qualities: adaptable, flexible, fast learner, hardworking, responsible, open-minded, nonviolent communication
- Languages: Russian (native), English (fluent)