

ANDREY VOLKOV

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EXPERIENCE

Tinkoff Bank Asia Middle Software Engineer	Nov 2021 – Present Manila, Philippines (Remote)
<ul style="list-style-type: none">Architected & developed from scratch multiple microservices for banking business processesDesigned & 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
<ul style="list-style-type: none">Architected & developed the system for auditing and tracing applications for tracking each step of business processesDeveloped high load applications (15-20k RPS) for processing audit and tracing data and persisting it to ClickHouse in real timeSignificantly decreased the database size using compression techniques and increased performance using special persisting approachesReduced multiple errors by developing integration and performance testing for critical high load applicationsReduced the amount of resources consumed in K8S cluster by analyzing and adjusting the applications' memory managementConducted 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
<ul style="list-style-type: none">Decreased the percentage of lost messages from 30% to 0% by optimizing the high load Kafka clientAutomated errors handling by creating a service for classifying and handling business applications' errorsEnsured application security by designing & implementing the contracts for OAuth 2.0 using Keycloak and Spring SecurityImplemented monitoring & alerting using Micrometer, Grafana, Prometheus, SlackDesigned & implemented Kotlin DSL for Teamcity pipelines (build docker image & deploy to K8S cluster)Designed & developed multiple internal frontend applications on AngularDeveloped internal FaaS (serverless) service based on FN Project	
Tinkoff Bank Intern Software Engineer	Feb 2019 – Aug 2019 Moscow, Russia
<ul style="list-style-type: none">Significantly decreased the time of creating and deploying applications by developing several infrastructure microservicesSimplified the applications management by developing a brand new internal system for monitoring and managing applications	

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

EDUCATION

HSE University Bachelor in Business Informatics	Sep 2017 – Jun 2021 Moscow, Russia
<ul style="list-style-type: none">Published two research papers on distributed microservice architecture and column-oriented DBMS ClickHouseFinished two project works on smart contracts for Ethereum platform and Blockchain applications	

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)