Oleg Lobanov

✉ jumbo5337@gmail.com
 https://github.com/jumbo5337

Education

2019–2021	**M.Sc. in Information systems and technologies**, *St. Petersburg State University of Telecommunications*, St. Petersburg, Russia, *with honours*, Studied machine learning approaches and software development management
2015–2019	**B. Sc. in Aviation meteorology**, *Russian Hydrometeorological State University*, St. Petersburg, Russia, *with honours*, Studied under the WMO program in english language, was interested in hydrodynamic modeling

Master thesis

title	*Research and development of an intelligent training app*

Bachelor thesis

title	*Influence of surface inhomogenity on the vertical motion at the upper level of atmospheric boundary layer*

Academic Expirience

- Developed application that analyzes the degree of physical fatigue by an ECG fragment using Keras and Kotlin
- Developed financial application with back-end and desktop front-end on Kotlin
- Implement OAuth2 protocol with Facebook with Java and JavaScript
- Developed desktop app for matrix and graph operations with JavaFX
- Solved problems with FCNN, CNN, RNN using framework Keras and PyTorch
- Built hydrodynamic models with DFT and BFT
- Implemented visualization "Shallow Water" model on python

Other

March-July 2019	Offline course "Java Junior Developer" (Java core, Spring Boot, PostgreSQL), LevelUP St. Petersburg)

Skills

Languages	Kotlin, Java, Python, SQL, Bash, JavaScript
Frameworks	Spring Framework (boot, data, security), Netty, JDBC, JAXB, Ktor
Build systems	Gradle, Maven, Bazel
Other	Apache Kafka, Apache Cassandra, CockroachDB, Docker, Kubernetes,Helm, PostgreSQL, Gitlab-CI, Git, Redis, ClickHouse

Software Development Experience

April 2020 - Present	**Kotlin Developer**, *CRPT*, St. Petersburg, Russia Development and support emission and billing subsystem of National marking system

- Implemented high loaded services using Kotlin-coroutines, Kafka, Cassandra, Cockroach
- Developed k8s-migration job for Kafka and CockroachDB (Liquibase)
- Implemented kubernetes cronjob
- Migrated data from HBase to Cassandra and from PostgreSQL to CockroachDB
- Organized data stream to Clickhouse via Kafka
- Written dynamic pipeline generation with Python for Gitlab-CI
- Implemented JAXB code-generation in Bazel
- Setup services communication via Kafka
- Tuned JAsync-driver for better Cockroach load balance
- Develop custom TCP-client based on Netty and implemented custom binary protocols
- Implemented different authorization methods OAuth2, basic auth, signed-jwt)
- Written integration tests with Testcontainers
- Provided integration with foreign system with REST and SOAP protocols
- Fixed hot bugs on production
- Helped QA-team with releases tests
- Performed load tests

October 2019 **Java Junior Developer**, *Sleki*, St. Petersburg, Russia
- March 2020
○ Stack: Java, Spring Boot, Project Reactor, PostgreSQL, MongoDB
○ Implemented features and fix bugs in Social-oriented REST-application
○ Implemented caching for most frequent queries using Spring Caching
○ Developed OAuth2 user authentication and authorization server
○ Implemented database interaction with Spring Data JPA
○ Written integration tests with Testcontainers

Interests

History   History of 20th century
Sport   Cycling, fitness, rowing, football
Hobby   Guitar music