

EMPLOYMENT**Software engineer****Virgin Connect****Spring 2016 - Present**

I was responsible for almost all servers with Java applications in Moscow Region division of Virgin Connect.

Integration with document management system Diadoc (September 2016 – Present)

- Developed part of the logic to export data from Microsoft SQL Server to xml and pdf files
- Deployed system to production server.

It is a middleware application that transforms data from DB to a batch of xml files with specific format using JAXB. We used Spring with Spring Boot on backend. All data has been stored in Oracle DB and Microsoft SQL Server.

Billing admin interface (April 2016 – Present)

- Took part in design and implementation from scratch of the billing admin interface as a full-stack developer
- Implemented several admin functions on the client side using ReactJS and on the server side using Spring framework and Oracle DB.

ReactJS with Bootstrap were implemented on frontend to interact with user. Backend was developed as REST service using Spring framework that gets data from Oracle DB.

RADIUS authorization service (January 2016 – Present)

- Implemented work with user info databases such as authentication requests and db sync using Spring framework, Oracle DB as a primary DB and PostgreSQL as a secondary DB and Docker for test environment deployment
- Implemented scripts for parsing RADIUS logs and store entries in Oracle Warehouse using Python.

This web application written with Spring MVC usage get AAA requests from FreeRadius server in HTTP format and response back according to the information got from DB. Tomcat is used as Web Server. Oracle DB is used as a primary database, PostgreSQL as a secondary. Also this service sync data between primary and secondary db and writes detailed logs about authorizations. Python scripts parse such logs and add information to Oracle Warehouse. For live system monitoring Nagios scripts were implemented. To test such system we used Docker to emulate secondary database and other dependencies and Ansible playbooks to deploy it to servers. Logback is used for logging.

Software developer**Smile Moscow Region ISP****Spring 2015 – Spring 2016**

My responsibilities were to design, develop and implement Java applications as a member of Agile Scrum team.

Partner feedback web application (September 2015 – November 2015)

- Refactored legacy code. Added Maven automatic build and deploy
- Integrated partners' requests with Redmine Issue tracker system using REST API.

Web application was written with Java Servlets. For each partners' request an issue in Redmine is created using REST client. To test this system I used Docker to get ready PostgreSQL and Redmine container.

Payment system (April 2015 – April 2016)

- Took part in design and implementation from scratch to deployment of the failover payment system as a member of scrum team using Spring framework
- Designed feature to sign up our messages with digital signature and check partners' sign
- Developed scripts for Nagios to monitor status of the payment system servers using Python language
- Backed up payment system servers.

The main aspect of this system is fault tolerance. For these purposes we configured several nginx servers (reverse proxy for application) to share the same IP address using keepalived. Frontend balancers forward requests to several Java instances. Java service itself was built with Spring Boot, Spring framework usage and checks, processes and stores information about payments to billing system. The application was designed to process several hundred requests per second. To monitor the system health in case of no payments during several minutes fake payments are sent. Tomcat is used as Web Server. Log4j and Slf4j are used for logging.

User personal area (August 2015 – December 2015)

- Improved maintainability of the legacy code
- Set up frontend nginx server
- Automated deploy to dev, test and production servers using Ansible.

This web application was written with JSF usage. My task was to make it easier to deploy application to servers. So I introduced Maven build, nginx frontend server and Ansible nginx config update.

User information message (October 2015 – January 2016)

- Full refactoring of legacy code (separated business logic and presentation; integrated project with Maven)
- Developed and implemented the new user interface using Bootstrap framework.

To refactor this application written with usage of Java Servlets I used Freemarker template engine to separate logic from presentation and implemented new user interface powered by Bootstrap framework.

Jr. software developer

JSC IBS

Fall 2013 – Spring 2015

Morsviazsputnik Federal State Unitary Enterprise portal development (December 2014 – March 2015)

Developed web application to display and edit registry information about sea ships and ports using ExtJs

Backend part has been developed with Spring technology and provide REST services for frontend part written on ExtJs. Application was deployed on Liferay enterprise portal.

Rosatom State Nuclear Energy Corporation enterprise portal development (January 2014 – November 2014)

- Designed and implemented the architecture of gallery component to display photos and videos using pure JS and SAP Java stack
- Developed portal component for conducting polls using SAP Java Stack.

Introduction of regulatory and reference documents in Rosatom State Nuclear Energy Corporation (November 2013 – December 2013)

Created web service to update the spreadsheets using SOAP and SAP Java stack.

For these applications I used SAP Java Development Stack and deployed them to SAP Enterprise Portal

Automation engineer

JSC EMICON

Winter 2012 – Fall 2013

Software system to automate the creation of design documentation for JSC Transneft (January 2012 – October 2013)

Designed, implemented and introduced software system to automate the creation of design documentation for oil industry, which reduced the time of documentation creation in 1.5 times.

This desktop program has been implemented with C++ and Visual Basic powered by additional libraries to work with AutoCAD and Microsoft Visio

EDUCATION

Moscow, Russia

Bauman Moscow State Technical University

Fall 2007 – Summer 2013

M.H.E. in Computer systems and networks, June 2013. GPA: 4.8

Graduate Coursework: Programming Languages, Algorithms; Databases; Circuitry; Computer networks; Computer systems; Microprocessor Systems; Signals Processing.

Theme of the diploma titled "Automatic fire extinguishing system of oil refinery".

Online courses

Fall 2013 – Present

- [Algorithms](#)
 - [Web Applications Architecture](#)
 - [Advanced Java](#)
 - [Databases](#)
 - [Web technologies](#)
 - [Linux administration](#)
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ADDITIONAL TECHNICAL EXPERIENCE

Study projects

- [Powerlifters DB Interface](#) (Summer 2016 – Autumn 2016) – web application that shows different possibilities to connect to PostgreSQL DB from Java and that can be launched without any server or DB external dependency using Docker. To initialize PostgreSQL database PL/pgSQL scripts have been developed. To connect to DB such methods were used: simple jdbc connection, Tomcat connection pool, PostgreSQL connection pool and Hibernate.
- [Concurrency Game server](#) (Summer 2014) – implementation of a game server written in Java. This project is developed with usage of: Jetty HTTP server, FreeMarker Java Template Engine, Selenium, JDBC, Hibernate. To come up with concurrency standard Java containers have been used.
- [Slideshow gallery](#) (Spring 2014) – simple gallery written in pure JS.
- [Game XO](#) (Winter 2013) – took part in Android game project. Developed and implemented AI algorithm in Java SE.

SKILLS, LANGUAGES AND TECHNOLOGIES

- Algorithms and data structures
- Java, Spring Framework, Spring Boot, Hibernate, JUnit, Selenium, Jetty Servlet Container, Apache Tomcat, Apache Maven, Nginx, Nagios
- JS, ReactJS, Ext JS, npm, webpack, babel; HTML, CSS, Bootstrap framework
- Web Services, REST, SOAP, XML, XSLT
- SQL; MySQL; PostgreSQL, PL/pgSQL; Oracle DB (basics)
- Linux, Python(Basics); TCP/IP protocols, networking and computer technologies
- Git, SVN; Ansible; Docker, Vagrant; Redmine, Atlassian JIRA, Atlassian Confluence; IntelliJ IDEA, Eclipse