

Oleksandr Gergardt

Email: ogergardt@gmail.com

Tel: (415) 966-9006

LinkedIn: linkedin.com/in/ogergardt

Github: github.com/ogergardt

Technologies & Skills

Apache Tomcat, Jetty
SOLR, Lucene, Zookeeper, QueryDSL, eDisMax,
JMS, ActiveMQ,
SQL (Oracle, MS SQL, MySQL), JDBC, RRD,
Ajax, JSON, jQuery, DataTables, Bootstrap, HTML, CSS,
XML, XSD, WSDL, Axis2,
Multithreading, MVC

Protocols

REST, SOAP,
SNMP, FTP

Frameworks

Spring, Hibernate, Apache Tiles,
log4J, Selenium, TestNG, JUnit, Rest Assured

Tools

Eclipse, Maven, Jenkins, Jira, SoapUI, RRDtool
Docker, Virtual Box,
ssh tunneling, port forwarding,
Subversion, Github,
Jmeter, YourKit

Programming languages

Java, Perl, bash

Education

B.S., Computer Science, 2008
National Technical University of Ukraine 'Kyiv Polytechnic
Institute', Ukraine

Projects

Match API – Scalable, highly available API using SolrCloud-based search engine. The API allows matching biographic information Name/Address/Phone/Email with the millions of already existing records of entities using a probabilistic algorithm. Also implemented a transforming of parameterized request to multiple parallel tasks of searching then group and merge results.

Exception handling API – The API allows to view and search exceptions, which generated by Match API, to create or update by exception a record of entity.

Integration with Student Information System – The client application to access JMS queue and process the information from the queue.

Loading of channels transport network – Web application for use by professionals of telecommunication company to analyze, display and store bandwidth statistics on rings of transport network. The application based on CACTI and Network Weathermap.

Aggregation of Cisco NetFlow data – Web application used for analyzing of IP traffic. It able to aggregate data by source, traffic destination and timing, build a number of reports and save aggregated data.

OTRS reports – Web application generate reports that show overview of all tickets by departments, detailed information about solution-time, reaction-time, number of open tickets.

Control quality of service – Scalable web application able to permit the measurement of network Quality of Service parameters.

Software Engineer

UC Berkeley, IT department

2013-present

- Designed and implemented a scalable, highly available API which based on SOLR
- Implemented configurations for collections of SolrCloud
- Designed and implemented on JAVA multithread import of data to SOLR which is more than 4 times faster than a naive solution
- Implemented on QueryDSL a number of complex search requests using the edismax query parser and include grouping, joining, nested queries
- Split up a shard into multiple shards and merge multiple shards into single core
- Designed and implemented a huge number of REST API which use Spring, Hibernate, FasterXML
- Designed and implemented a number of SOAP web services which use Spring, Axis2
- Implemented secure access to REST API with OAuth2 authentication using Spring Security
- Designed and implemented a receiving of data from ActiveMQ and a transfer their to Oracle database
- Implemented compiling XML Schemas into Java classes in Maven builds using maven-jaxb2-plugin
- Implemented an encrypted connection to Oracle database and set up a JNDI Connection Pool for Tomcat
- Implemented a number of API methods which return DataTables objects
- Implemented a standardization, validation and a receiving of the geocode data for addresses using SmartyStreets
- Implemented a grid component of DataTables on jsp pages using a server-side processing
- Launched Spark cluster on Amazon EC2
- Implemented automated Web Scraping of data from a number of web sites using Selenium WebDriver
- Implemented ETL process to automate the data loading and validation data using Spring Batch

Software Engineer

Ukrtelecom

2009-2013

- Developed a number of web applications using Spring MVC, Hibernate, Apache Tiles, JSP, CSS, JSTL, Ajax, jQuery, DataTables, Bootstrap
- Developed Web Services for transferring data between client and server using Axis2, SOAP, WSDL
- Responsible for writing complex SQL queries to databases (Oracle, MySQL, MS SQL)
- Researched a system CACTI, description of Network Weathermap, existing MySQL database tables and a data format of Round-Robin Database
- Researched a system OTRS and existing MySQL database
- Developed Perl-scripts to take data from CACTI, NetFlow and store to Oracle database
- Designed and implemented a Perl-script which traces network traffic and send SNMP traps to a IBM Tivoli if happened a sharp change
- Collaborating with analytics of company developed a view of reports
- Developed a forked Perl-script for a defining network Quality of Service parameters for IPTV and VOIP (availability, JITTER...)
- Wrote unit tests and integration tests using JUnit, Mock objects, Rest Assured