Nickolay Laptev

Education

2005-2010 Mary State Technical University, Russia, Master of Computer Science

Summary of qualifications

General skills:

- Languages: Java (ME/SE/EE), C#, VB.NET, Groovy, Perl, JavaScript, Lisp, F#, Assembler, C, C++, PHP, Ruby.
- Web frameworks: Spring MVC, AngularJS, ASP.NET MVC 3, Apache Struts.
- IDE: Eclipse, IntelliJ Idea, NetBeans, MS Visual Studio 2003/2005/2008/2010/2012, Vim.
- Version control: Git, Mercurial, Subversion, Rational Team Concert, Team Foundation Server, Vault, Visual SourceSafe.
- DBMS: MS SQL Server 2000/2005/2008/2012, Oracle, DB2, Postgresql, MariaDB, MongoDB, Apache Jena, DynamoDB, Redshift.
- DB tools: Spring Data, JPA, Hibernate, MyBatis.
- Messaging: Apache Kafka, JMS, IBM Websphere MQ, Apache ActiveMQ, RabbitMQ.
- Transactions: JTA, JBossTS (Narayana).
- Web services: RPC, SOAP, REST.
- Application servers: Apache Tomcat, JBoss, Websphere Liberty.
- Design platforms: OSGi, Eclipse Rich Client Platform, Eclipse Equinox, Netbeans platform.
- Unit-testing frameworks: JUnit, NUnit, JMockit, PITest, Arquillian.
- Logging frameworks: Graylog, Log4j, Logback.
- GUI: GDI/ GDI+, DirectX, OpenGL.
- DevOps tools: Jenkins, Ansible, Team City, Bamboo, Rational Team Concert, ElectricFlow, Bitbucket Pipelines.
- Monitoring tools: New Relic, Zenoss, Grafana, Graphite.
- Source code static analysers: FxCop, StyleCop, Klocwork, Sonar, FindBugs.
- Build and dependency management: Ant, Maven, Gradle.
- Other frameworks: Spring, Dropwizard, JCA (JBoss IronJacamar), Apache Camel, Netflix OSS (Eureka, Hystrix, EVCache), Elastic Stack.
- OSes: MacOS, Linux (Red Hat, Ubuntu, IBM z\OS).
- Cloud platforms and containers: AWS, Heroku, Azure, OpenShift, SAP Cloud Platform, Cloud Foundry, Docker.
- Chatbots platform: Facebook Messenger, Telegram, Chatfuel, ManyChats, Zapier, Facebook Analytics, Dashbot.

Code examples

GitHub user https://github.com/laptevn

https://github.com/BetterWorldInternational/LOVECHAIN
I helped non profit organisation with the following:

- Introduced CI process

- Moved the project from Spark Framework to Spring Boot and removed many reinvented wheels
- Refactored code base to make it testable
- Increased code coverage from 0% to 60%

https://github.com/laptevn/invoice-manager
Small application that generates invoices every week to pay my taxes, data is collected from my bank using its API. Spring Boot application hosted in Heroku.

https://github.com/laptevn/statistics
Test project for N26 (European mobile bank) that I passed.

https://github.com/laptevn/jogging
Test project for Toptal (freelancing platform) that I passed. REST API with persistency, sophisticated filtering, authorisation, authentication and weather API used.

Certifications

Oracle Certified Associate, Java SE 7 Programmer.
Oracle Certified Professional, Java SE 7 Programmer.
Machine Learning from Stanford University on Coursera.
Project Management Orientation (PM54G) from IBM.
Project Management Fundamentals (PM10G) from IBM.
Big Data Fundamentals from IBM.
Big Data Hadoop Fundamentals from IBM.
Platform as a Service Academy graduate from Accenture.

Work experience

Code Reviewer at Geektastic (05/2019-now)

Reviewing code challenges to help the world's top tech companies to hire the best developers. Part-time job.

Technical Consultant at Spotsize, Jacq (06/2019-07/2019)

Limited contract work for a startup.

Activities:

1. Designed all components of the platform.
2. Made existing system scalable.
3. Brought structure to source code, made it extensible and testable.
4. Increased code coverage from 0 to 80%. Introduced unit and integration testing.
5. Organised work of several cross-functional and distributed teams.
6. Introduced measuring performance of a team and individual contributors.
7. Trained teams to be more effective and improve performance.

Development environment: SAP Cloud Platform, Cloud Foundry, Java, Spring, Netflix OSS, Elastic Stack, Bitbucket Pipelines, Microservices.

Cross Products Software Architect at Accenture (07/2018-05/2019)

Activities:

1. Created a plan to solve quality issues in one SaaS product including creation of standards and acceptance criteria.
2. Lead an acceptance of the plan from stakeholders, provided constant assistance during plan implementation.
3. Acted as a technical expert in that product.
4. Acted as a security expert in all products.
5. Migrated Jenkins based CI builds for a core project to CD pipeline including cleaning ineffective solutions and adapting to new project requirements.

Projects:

Human Capital Management (07/2018-05/2019)

A set of products in HR field based on SAP SuccessFactors.
Development environment: SAP Cloud Platform, Cloud Foundry, Java, Jenkins, Docker.

Technical Consultant at N26 (06/2018-08/2018)

Limited contract work.

Activities:

1. Identified organisational and technical bottlenecks and created a plan of improvements.
2. Removed redundancy from development process.
3. Introduced measuring performance of a team and individual contributors.
4. Fixed broken Continuous Delivery pipeline for several services.
5. Provided technical guidance for introducing support of US market.

Development environment: AWS, Docker, Java, Spring, Netflix OSS, Jenkins, Microservices.

Java Software Engineering Manager at Crossover (03/2018-05/2018)

Activities:

1. Lead a team of 15 people including 3 technical leads, 7 senior and 5 middle developers.
2. Defined all working processes for the product basing on automation of everything.
3. Performed 80+ hiring interviews.

4. Worked remotely.

Projects:

Loyalty and Campaign Management (03/2018-05/2018)

We started acquiring TecnoTree company and set an aggressive goal to migrate all its products and processes to our side in 1 quarter.
I lead a migration of "Loyalty and Campaign Management" product. An acquisition was postponed along with all migration activity.
Development environment: SmartSheet, BetterWorks, Jira, Confluence.

Java Chief Software Architect at Crossover (02/2017-03/2018)

Activities:

1. Lead teams of 3-10 software engineers, DevOps and QAs.
2. Designed and implemented synthetic monitoring solution from scratch.
3. Standardised Continuous Integration and Delivery processes for hundreds of products and teams.
4. Fully automated product deployment and environments provisioning for it.
5. Implemented the most complex and critical tasks for several projects. Customers had been waiting for 2+ years for completion of some of them.
6. Organised delivery process from resource and product perspective for lack of resource and product management for several projects.
7. Guarded high technical quality in products.
8. Created a blueprint for market new system that combines chatbot builders and payments platform. Estimated required costs.
9. Investigated performance and availability issues for Crossover platform and created a plan for improvements.
10. Worked remotely.

Projects:

Crossover (02/2018-03/2018)

Our client started experiencing performance and availability problems after introducing a new service. My role was to identify root causes of problems, propose solutions and create plans how to deliver required changes.
Along with producing main deliverables I exposed other problems they had and proposed solutions. VP of this company was happy with results and suggested to help with another project on a position of Software Engineering Manager, that I accepted.
Development environment: New Relic, Elastic Stack, AWS(EC2, S3, RDS), Docker, JMeter.

Digital Creative (01/2018-02/2018)

Our client came to us with an idea of integration of bot builders and payments systems into a single platform. I created a blueprint for the platform. The client was happy with prepared plans and made an order for platform implementation by us.
Development environment: Facebook Messenger, Chatfuel, ManyChats, Zapier, Facebook Analytics, Dashbot.

Jive Core (10/2017-12/2017)

Core part of Jive Software had a release scheduled that required a zero downtime for an upgrade. I drove this release from the first day of team formation until delivering the release to customers.
Development environment: Java, Spring, Apache Struts, JUnit, Postgresql, Apache Kafka, Jenkins, Docker, Maven, Intellij Idea.

CI Standardization and Continuous Delivery (05/2017-10/2017)

My team was responsible for implementation of Continuous Delivery process for all products in the company. I provided a technical leadership for the team of 10+ people and implemented the process for several products. Implementation of CD process included the following iterations:
- Standardization of CI builds within the company.
- Deployment automation.
- Environment provisioning automation.
- Defining delivery process

Development environment: Ansible, TeamCity, Docker, Maven, Gradle, AWS(EC2, S3, ECR, RDS), Nexus, Flyway, ElectricFlow.

CodeServer Monitoring (02/2017-04/2017)

Synthetic monitoring solution for a big enterprise CodeServer application. The solution runs customisable list of acceptance tests, monitors different states of monitored application and displays fancy UI with collected data.
Development environment: Java, Spring Boot, AWS(EC2), Docker, Graylog, REST, JUnit, Gradle, Jenkins, Intellij Idea, Microservices.

Technical Consultant at Gigster (11/2016-05/2017)

Implemented several projects for world top companies. Other details are protected by NDA.

Technical Consultant at UI Services, Upwork (11/2016-01/2017)

Limited contract work.

Activities:

Designed and implemented a core part of A/B testing system for Upwork platform.
Development environment: Java, Dropwizard, AWS(EC2, DynamoDB, Redshift), Netflix OSS (Eureka, Hystrix, EVCache), Docker, Elastic Kibana, Grafana, REST, JUnit, PITest, Intellij Idea, Microservices.

Tech Lead at IBM (07/2015-09/2016)

Activities:

1. Technical guidance of contractors.
2. Increased code coverage from 0 to 80%, introduced integration testing.
3. Redesigned core part of a system to make it more testable, extensible and maintainable.
4. Made the system consistent and removed concurrency issues.
5. Improved a performance of the most popular use cases in 3 times.
6. Final vote on choosing technical approaches.

Projects:

Rational Software Architect Design Manager (07/2015-09/2016)

Collaborative software design and development platform. With Rational Software Architect Design Manager global teams can store, share and manage designs and models in a central location, so they can closely collaborate with stakeholders to successfully meet requirements.
The product contains of a server and a client. The server is based on a set of REST web services. The client is Eclipse RCP application.
Development environment: IBM Java (J9), Eclipse IDE, Eclipse RCP, Eclipse Equinox, OSGI, RTC, REST, Apache Jena, JUnit.

Team Lead at TransCity (03/2015-07/2015)

Activities:

1. Lead a team of 7 people including software engineers, QA, business analysts and Ops.
2. Final vote on choosing technical and organisational approaches.
3. Provided a plan for a replacement of proprietary software and hardware stacks based on real measurements that lead to saving of millions for Russia.
4. Designed and implemented a system for producing personal ID cards for Russian citizens that reduced producing times in 4 times and saved millions spent on redundant expenses for ministries.
5. Built a team and a relationship with a customer side from scratch.
6. The customer was happy with end result and wanted to hire me to its own projects.

Projects:

Russian citizen ID card (03/2015-07/2015)

Federal migration service of Russian Federation stated a new form of personal ID card for Russian citizens. Development of backend software for such a card is committed to our team.
Development environment: OpenJDK, Postgresql, Maven, Apache Tomcat, Apache Camel, JAX-WS, Intellij Idea, Linux (Ubuntu), Microservices.

Replace proprietary software with open source one (03/2015-07/2015)

Backend of foreign passport maintenance system used some proprietary technologies. Due to political situation such technologies were under review. Project goal was providing test system emulating a real system under natural load.
3 sets of open source technologies were considered as a replacement of proprietary stack.
The major part of the project was a load testing of the system used these sets.
Development environment: Java, Spring, JPA (Hibernate), JTA (JBossTS - Narayana), JCA (JBoss IronJacamar), IBM DB2, IBM Websphere MQ, Postgresql, Apache ActiveMQ, MariaDB, RabbitMQ, Maven, Apache Tomcat, Intellij Idea, Linux (Ubuntu, IBM z\OS).

Team Lead at ACI Worldwide (01/2013-03/2015)

Activities:

1. Lead several teams of 3 software engineers and QAs.
2. Final vote on choosing technical and organisational approaches.
3. Implemented core parts of payments framework that is used by top 60 banks in the world.
4. Created a system for automated functional testing of online banking that made hundreds of manual QAs redundant.
5. Lead migration from .Net to Java stack for office employees including organising trainings and workshops.
6. Interviewed core people for a new office.

Projects:

ACI Universal Payments Framework (05/2013-03/2015)

Universal Payments Framework (UPF) is framework for managing payments that contains several complex sub systems handling a numerous of money transfer protocols (for each payment system), mission critical application server with sophisticated services management (UP Hub) and much more hot things. It's a core part of entire ACI payment system.
Development environment: Java, Perl, Groovy, Oracle, Maven, Sonar, Bamboo, JUnit, JMockit, Jira, Intellij Idea IDE, Eclipse IDE, Netbeans IDE, Linux (Red Hat).

Corporate banking/Online banking (01/2013-05/2013)

ACI had a big problem having manual functional testing with hundreds of QA engineers and a very poor automatic testing on several projects. This project was one of the small number of pilot projects aimed to resolve this problem.
We implemented automatic functional testing system as a result. This pilot project was successful and was used as a base for all other automatic functional testing systems being developed in our company. Training materials helped to train a lot of QA engineers.
Development environment: Java, Selenium, Jira, Eclipse IDE.

Team Lead at TeamForce (09/2008-01/2013)

Activities:

1. Lead a team of 3-6 software engineers.
2. Designed and implemented core parts of products.
3. Created several market new products from scratch.
4. Interviewed new engineers including final decision on hiring.
5. Final vote on choosing technical and organisational approaches.
6. 2 our products (ApexSQL Complete and Refactor) won 2 silver medals "Windows IT Pro Community Choice Award Winner 2013".
7. Won "ComponentSource Bestselling Publisher Award" 4 times every year 2009-2012.
8. As a result of outstanding work and strong commitment to the quality and constant improvement our TeamForce company was acquired by ACI Worldwide having preserved our culture and working process. Money got from this acquisition was spread between ten developers and managers made the most valuable contribution to our company success and I was one of these guys.

Projects:

ApexSQL Complete

A ton of free SQL Server productivity features for SSMS and Visual Studio including SQL auto-complete.
Presents Visual Assist and JetBrains Resharper analog but for TSQL language.
There is no direct competitors assuming the huge list of product features. Native SSMS autocompletion is far beyond too.
Development environment: MS VS, MS SSMS, TSQL, C#, NUnit, Team Foundation Server, Git, Subversion, FxCop, StyleCop.

ApexSQL Doc

Document SQL Server databases and SSIS packages.
Humanly-readable SQL databases exported to CHM, HTML, Word, and PDF formats. Generating relationship diagrams. A high performance SQL documentation engine that can easily be scheduled to run unattended.
Development environment: MS VS, MS SSMS, TSQL, C#, NUnit, Team Foundation Server, Git, Subversion, FxCop, StyleCop.

ApexSQL Source Control

Universal interface (API) for the following version control systems: Apache Subversion, SourceGear Vault, Microsoft Team Foundation Server and Microsoft Visual Source Safe.
There is absolutely no competitors assuming a functional set and its high performance. API is distributed as both a standalone library and as a part of separate ApexSQL products (it provides SQL DB versioning there). In ApexSQL products it's used for collaboration with DB objects (DDL and DML scripts).
This project was started as my diploma project and had deserved the highest grade.
Development environment: MS VS, C#, Subversion, Vault, Team Foundation Server, VSS, Git, NUnit, FxCop, StyleCop.

ApexSQL SSIS Compare

An engine for loading and comparing MSSQL server SSIS packages. There were no analogs of this tool but now is no longer available for sale.

Development environment: MS VS, MS SSMS, TSQL, C#, NUnit, Team Foundation Server, Git, Subversion, FxCop, StyleCop.

ApexSQL Log

A SQL transaction log reader for forensic auditing and rollback of malicious or inadvertent changes. There is absolutely no competitors. Most interesting features include the following:
- Audit data, schema, and permission changes on SQL Server databases
- Rollback database changes and recover missing or damaged data
- Forensically mine transactions to determine who, changed what, and when

Development environment: MSVS, MSSQL Server, TSQL, C#, NUnit, Team Foundation Server, FxCop, StyleCop.

ApexSQL Refactor

An engine for formatting and refactoring SQL code in SSMS and Visual Studio.
This engine includes a huge list of refactorings and formatting styles that no other competitor (including SSMS itself) provides - nearly 200 formatting options and 11 code refactors.
Development environment: MS VS, MS SSMS, TSQL, C#, NUnit, Team Foundation Server, FxCop, StyleCop.

ApexSQL Script

Script SQL objects and data into scripts and deployment packages.
The only competitor is Microsoft SMO API used in SSMS. But our Script tool is 200-600% faster having pretty similar RAM consumptions at the same time. Also its features list is much longer than Microsoft SMO API one.
Development environment: MS VS, MS SSMS, TSQL, C#, NUnit, Team Foundation Server, FxCop, StyleCop.

Languages

Russian (native), English (fluent)

Personal information

The most interesting tasks I find are:
- Almost everything related to real life communication. See and hear people and fill their emotions is a real joy.
- Leadership. Helps people to develop and improve themselves to achieve common goal and see their happy and satisfied faces are the best things I find in my job.
- Find or create the system in chaos.
- Solve complex and sophisticated tasks.
- Try something new where I don't feel comfortable.

I'm awfully curious and always want to know how and why everything around me works.
Perfectionist that did his best to achieve the aim.
Eager for improvements and constantly learn something new and useful.

Served in Russian army as a head of radio station.

Hobbies

Do sport all my life.
Spent 8 years in professional basketball. Still crazy about this game and cannot stand calm seeing somebody playing around me.
Swimming regularly.
Enjoy travelling, learning new cultures and meeting new people.

Blogs

https://twitter.com/NickolayLaptev
https://medium.com/@nickolay.laptev