

# Igor Y. Pavin

Email: [igorp1024@yandex.ru](mailto:igorp1024@yandex.ru) | Skype: [@igorp1024](https://www.skype.com/user/igorp1024) | Telegram:

LinkedIn: <https://www.linkedin.com/in/igor-pavin/> | GitHub: <https://github.com/igorp1024>

## Senior Java Backend Engineer / Software Architect



### Professional Summary:

Java backend is my primary focus since 2003 and my experience helps me to solve complex problems and tasks of my clients and employers.

### Technical skill set:

#### Languages:

- Java 21
- Bash
- Python 3

#### Technologies and frameworks:

- Spring-boot, Spring-cloud, Microservices
- Kubernetes, Openshift, Docker, Docker-Compose
- Kafka
- Grafana, Prometheus, Kibana
- Protobuf, Lombok, AOP (AspectJ)
- JDBC, JPA/Hibernate, Flyway, Liquibase, H2
- Junit, AssertJ, Mockito, TestNG
- REST, JSON

#### Databases:

- PostgreSQL, Oracle, MySQL
- MongoDB, Apache Cassandra

#### Other:

- Git
- Gradle, Maven
- SonarQube, JaCoCo
- Jenkins, Concourse-CI
- Atlassian JIRA/Confluence/FishEye/Crusible
- Github, Gitlab, Bitbucket

## Education:

**Donetsk State Technical University** (September 1994 – July 1999)

Computer science specialist degree.

## Employment history:

**T1 Consulting** (Jun 2022 – current time)

Expert/Senior Software Engineer (Software architecture design, development and improvement)

**Luxoft** (Jul 2021 – May 2022)

Senior Software Engineer (Software architecture design, development and improvement)

**Inno.tech** (Aug 2020 – Jun 2021)

Senior Software Engineer (Software architecture design, development and improvement)

**Toptal** (Dec 2015 – Jul 2020)

Senior Software Engineer (Software architecture design and development)

**#Place** (May 2017 – Jan 2019)

Senior Software Engineer (Software architecture improvement and implementation)

**Dubit Limited** (Apr 2016 - Apr 2017)

Senior Software Engineer (Software architecture design and development)

**Crossover for Work** (June 2015 - Mar 2016)

Software Architect (Software architecture design and development)

**Exadel** (September 2007 – May 2015)

Senior Software Engineer, Tech Leader (Architecture and software development, team management)

**Datech Ltd.** (December 2003 – August 2007)

Software Architect, Lead Java Engineer (Architecture concepts, development, mentoring)

**Algo-rithm LLC** (March 2002 – November 2003)

Web developer (JEE-development and web-development)

## Projects:

As T1 employee (Jun 2022 — current time)

Сфера Знания (Sfera Knowledge)	
<b>Описание:</b>	<p>Продукт, импортозамещающий Atlassian Confluence. Управление базой знаний, с применением современных подходов в интерфейсе и в логике управления.</p> <ul style="list-style-type: none"><li>• Разработка и реализация основных концепций в виде микросервисной архитектуры</li><li>• Интеграция с Atlassian Confluence с целью импорта данных</li><li>• Интеграция со смежными системами (Сфера Задачи и т.п.)</li><li>• Разработка основных концепций релиз-менеджмента и непосредственное участие в этом процессе с технической стороны.</li></ul>
<b>Техническая основа:</b>	Java 21, Kubernetes, Spring-boot, PostgreSQL, Gradle
<b>Позиция:</b>	Эксперт
<b>Платформа:</b>	Linux

As Luxoft employee (Jul 2021 — May 2022)

Technical and Ethical Audit	
<b>Description:</b>	<p>Data migration and integration with multiple third-party systems providing technical and ethical audit data for multiple suppliers of Tesco PLC.</p> <ul style="list-style-type: none"><li>• Requirements analysis</li><li>• Microservices development</li><li>• Building a reporting subsystem</li><li>• In-house custom services integration</li></ul>
<b>Technical base:</b>	Java 11, Kubernetes, Spring-boot, PostgreSQL, Maven
<b>Position:</b>	Lead Java Engineer
<b>Platform:</b>	Linux

As Inno.tech employee (Aug 2020 — Jun 2021)

<b>Credit conveyor</b>
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<b>Description:</b>	Develop a “credit conveyor” infrastructure for bank. <ul style="list-style-type: none"> <li>• Microservices development</li> <li>• Metrics monitoring and code optimization/parallelization</li> <li>• Third-party services integration</li> </ul>
<b>Technical base:</b>	Java 8, Openshift, Kafka, Grafana, Kibana, Spring-boot, Oracle, PostgreSQL, Gradle
<b>Position:</b>	Senior Java Engineer
<b>Platform:</b>	Linux

#### As Toptal employee for PitchStone Technology, LLC (Jul 2019 — Jul 2020)

Glamhive	
<b>Description:</b>	Support and improve the personal stylists services portal. <ul style="list-style-type: none"> <li>• Redesigning the REST API to meet the new requirements</li> <li>• Implementing user stories according to the new specification</li> <li>• Improving the integration with Stripe API</li> <li>• Dockerizing the existing apps</li> </ul>
<b>Technical base:</b>	Java 8, Docker, MongoDB, Amazon CloudSearch, Stripe, Swagger
<b>Position:</b>	Senior Java Engineer
<b>Platform:</b>	Linux

#### As Toptal employee for Sscreen Inc (Feb 2019 — Jun 2019, Nov 2019 — Mar 2020)

Sscreen java APM agent test infrastructure	
<b>Description:</b>	Develop a infrastructure to make easy a thorough testing of the java agent application an java application servers and frameworks on various modern and legacy JDKs.  Involving: <ul style="list-style-type: none"> <li>• Building docker images infrastructure for the set of servers (Tomcat, Wildfly, Jboss EAP, Jetty, Glassfish, Payara, Weblogic, Websphere liberty and Websphere traditional) and set of frameworks (Dropwizard, Jersey, Play, Spring-boot, and Vert.x) with embedded appserver (mostly Jetty);</li> <li>• Providing TestNG generic tests for Sscreen agent run in parallel with competitor agents (New Relic agent, DataDog agent, AppDynamics agent, Elastic APM agent) to find the compatibility issues;</li> <li>• Building an infrastructure for integration tests on CI-server</li> </ul>

	<p>execution, results analysis and reporting</p> <ul style="list-style-type: none"> <li>Implementing a universal test execution infrastructure for the generated images for the other technologies like ruby, node.js, python, go, etc.</li> </ul>
<b>Technical base:</b>	Java 6 - Java 13, java application servers (see above), APM agents (see above), Docker, MySQL, PostgreSQL, TestNG, Testcontainers, Python, Bash, Gradle, Google Cloud Platform
<b>Position:</b>	Senior Java Engineer
<b>Platform:</b>	Linux

#### As #Place employee (May 2017 — Jan 2019)

Slot machines backend	
<b>Description:</b>	Backend for multiple software slot machine clients. It performs slot data generation, user account management (top up/withdraw), transparent balances caching to lower database load. Also supports two protocol versions and translation between them for legacy clients. Slots are defined in a declarative way (YAML-like DSL) to ease modification for non-technical people.
<b>Technical base:</b>	Java 11, Spring-boot 2, JDBC, Docker, Grafana, Prometheus, Flyway, Lombok, Junit 5
<b>Position:</b>	Senior Java Engineer/Architect
<b>Platform:</b>	Linux

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**As Dubit Limited employee (Apr 2016 — Apr 2017)**

<b>MBC3 kids entertainment portal</b>	
<b>Description:</b>	Microservices-based backend handling mobile entertainment application requests (in-game purchases, gifts, mystery boxes, avatars, etc).
<b>Technical base:</b>	Java 8, Spring-boot, Docker, JPA, Spring-data-rest, PostgreSQL, Liquibase, Swagger UI, Velocity, Junit
<b>Position:</b>	Senior Java Engineer/Architect
<b>Platform:</b>	Linux

**As Crossover employee (June 2015 — Mar 2016)**

<b>Aurea's Actional Management Server</b>	
<b>Description:</b>	Support and improvement for Aurea's product Actional Management Service, the Java/.NET applications performance analytic software.
<b>Technical base:</b>	Java core, JSP, javascript, Jetty, Ant
<b>Position:</b>	Senior Java Engineer
<b>Platform:</b>	Linux+Windows

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## As Exadel employee (September 2007 — May 2015)

TD VEO One	
<b>Description:</b>	Financial advisory and analytics service.
<b>Technical base:</b>	Spring framework 3, Hibernate 4, Dozer, Mockito, Junit 4, Oracle, Tomcat 7
<b>Position:</b>	Senior Java Engineer
<b>Platform:</b>	Crossplatform
CircleBlack	
<b>Description:</b>	Financial online monitoring tool which calculates securities returns, portfolio performance, risks, etc.
<b>Technical base:</b>	WSO2ESB 4.0.8, WSO2DSS 3.1.1, Apache Cassandra 2, Apache Tomcat 7, Mysql 5.6, Liquibase
<b>Position:</b>	Senior Java Engineer / Team lead
<b>Platform:</b>	Crossplatform
bTrade Secure Xchange	
<b>Description:</b>	Java-based secure data transfer middleware (files, messages, etc.) via secure FTP, SFTP, HTTP-S/MIME protocols
<b>Technical base:</b>	Jboss AS7, JEE, JSF + JBoss Richfaces, Jboss Seam 2, Hibernate 3, Junit 4, Arquillian
<b>Position:</b>	Senior Java Engineer
<b>Platform:</b>	Linux + Windows
McKesson HealthCare IDM	
<b>Description:</b>	Intranet identity management security solutions (identity management for intranet users).
<b>Technical base:</b>	Javascript, JSP, OpenAM 10, OpenIDM 2.1.0, OpenDJ 2.5.0, Apache Tomcat, Nginx, MySQL, MS ActiveDirectory
<b>Position:</b>	Senior Java Engineer
<b>Platform:</b>	Linux + Windows
Hewlett-Packard Cleansheet	
<b>Description:</b>	Products catalog and online store for HP company website.
<b>Technical base:</b>	Spring framework 3, AOP, Hibernate 3, Oracle, SDL Tridion, Weblogic
<b>Position:</b>	Senior Java Engineer
<b>Platform:</b>	Linux + Windows

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NextWave eNewsletter (Multi-level marketing engine)	
<b>Description:</b>	MLM-software with partnership program support. Mailing and newsletter design.
<b>Technical base:</b>	Springframework 3, JMX, Hibernate 3, MSSQL, Tomcat 5
<b>Position:</b>	Technical lead / Senior Java Engineer
<b>Platform:</b>	Crossplatform
DriveDev (PayPal Enterprise Portal/PayPal Dual Controls)	
<b>Description:</b>	PayPal portal where enterprise users can control their accounts (balances, payments), perform payments and control different financial activities.
<b>Technical base:</b>	Springframework 3, Spring-security 3, Spring-webflow 2, JSF 1.2/A4J/Facelets, jQuery, Hibernate 3, Oracle XE, Tomcat 5
<b>Position:</b>	Senior Java Engineer
<b>Platform:</b>	Crossplatform
Deutsche Bank Openadaptor	
<b>Description:</b>	JMX-controlled customized middleware system similar to existing ESB-solutions.
<b>Technical base:</b>	Springframework 3, Spring-security 3, JSF 1.2/A4J/Facelets, JavaFX 1.2, jQuery 1.3, Hibernate 3, Oracle XE, Tomcat 5
<b>Position:</b>	Architect/Team Leader/Senior Java Engineer
<b>Platform:</b>	Crossplatform
Golden Gate University Path2Complete	
<b>Description:</b>	Course attendance forms management system. Includes support for the student, advisor and administrator.
<b>Technical base:</b>	Springframework 2.5, JSF 1.2/A4J/Facelets, jQuery, Hibernate 3, Oracle, Tomcat 5
<b>Position:</b>	Senior Java Engineer
<b>Platform:</b>	Crossplatform
Exadel E7	
<b>Description:</b>	Flow design/control system. Includes eclipse-based GUI and set of JBPM action-handlers.
<b>Technical base:</b>	JBPM, Drools, JAX-WS, JAX-RS, Jboss AS
<b>Position:</b>	Senior Java Engineer
<b>Platform:</b>	Linux + Windows

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<b>ABNAMRO MaxTrad</b>	
<b>Description:</b>	System for small credit processing. Operates documents of the following types: Letter of Credit, Amendment, Inquiry.
<b>Technical base:</b>	GWT, EJB, Tomcat
<b>Position:</b>	Senior Java Engineer
<b>Platform:</b>	Crossplatform
<b>Deutsche Bank Mutual Funds IPS</b>	
<b>Description:</b>	Invoice processing system for Deutsche Bank. Part of the Deutsche Bank internal automation system.
<b>Technical base:</b>	Spring framework 2, Apache, Tomcat, Oracle, Hibernate, JSF
<b>Position:</b>	Java Engineer
<b>Platform:</b>	Clustered tomcat configuration, Linux

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**As Datech Ltd. employee (December 2003 — August 2007)**

<b>Payments processing site (<a href="http://payments.world-dating-partners.com">http://payments.world-dating-partners.com</a>)</b>	
<b>Description:</b>	It's a part of the partnership sites of the dating sites partnership network (see below). This site is intended to be a credit card payments accepting part. It utilizes the services of the CyberSource ( <a href="http://cybersource.com">http://cybersource.com</a> ) payment provider.
<b>Technical base:</b>	Spring framework, Apache, Tomcat, Oracle
<b>Position:</b>	System Architect/Tech Lead
<b>Platform:</b>	Clustered web-server configuration, Linux
<b>Web content building module</b>	
<b>Description:</b>	<p>The JAR-library/ANT-task which performs the build of the ad-hoc organized web content of the partnership network partner sites. The "ad-hoc" organization of the content includes such features as:</p> <ul style="list-style-type: none"><li>• inheritance of the web content (JSP, styles, images, js-scripts, mail templates) from one site by another;</li><li>• overriding of the inherited web content.</li></ul>
<b>Technical base:</b>	JSE, Ant, TestNG, AspectJ, JNI
<b>Position:</b>	Lead Engineer/System Architect
<b>Platform:</b>	Linux + Windows
<b>Worldwide dating site with the partnership network. (<a href="http://singlescrowd.com">http://singlescrowd.com</a>)</b>	
<b>Description:</b>	<p>Dating site where the people can find their match. The system has such features as:</p> <ul style="list-style-type: none"><li>• IM-chatting</li><li>• Rich criteria matching mechanism</li><li>• Powerful partnership network</li></ul>
<b>Technical base:</b>	Springframework, Tomcat, Apache, Web services, Oracle
<b>Position:</b>	Lead Engineer/System architect
<b>Platform:</b>	Clustered web-server configuration, Linux

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Partnership program administrative area for sites registered in "Singlescrowd Partnership Network" and "Adultcrowd Partnership Network". <u>Inactive at the current moment (<a href="http://d-admin.world-dating-partners.com">http://d-admin.world-dating-partners.com</a>)</u>	
<b>Description:</b>	Partnership program administrative area for <i>"Singlescrowd Partnership Network"</i> and <i>"Adultcrowd Partnership Network"</i> ( <b>Inactive at the current moment</b> )
<b>Technical base:</b>	<i>Tomcat, JBoss, MySQL</i>
<b>Position:</b>	Developer
<b>Platform:</b>	Clustered web-server configuration, Linux
Partnership program registration site for "Singlescrowd Partnership Network" and "Adultcrowd Partnership Network". <u>Inactive at the current moment (<a href="http://dating.world-dating-partners.com">http://dating.world-dating-partners.com</a>)</u>	
<b>Description:</b>	Partnership program registration sites for <i>"Singlescrowd Partnership Network"</i> and <i>"Adultcrowd Partnership Network"</i> ( <b>Inactive at the current moment</b> )
<b>Technical base:</b>	<i>Tomcat, JBoss, MySQL</i>
<b>Position:</b>	Java Engineer
<b>Platform:</b>	Linux

## Interests and hobbies:

- Digital photography and studio photography;
- Functional programming languages;
- Distributed and high-load architectures;