

# Igor Y. Pavin

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## Senior Java Backend Engineer

## Software Architect

### Objective:

To obtain Senior Java Backend Software Engineering / Software Architect position where I can effectively contribute my skills and experience.

### 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 (Java 11)
- Python
- Bash
- Javascript

#### Technologies and frameworks:

- Spring-boot 2, Spring-cloud
- JSE, JEE, Microservices, REST, JMX, JMS, JSP/Servlets
- Docker, Docker-Compose
- Grafana, Prometheus
- Protobuf
- JDBC, JPA/Hibernate, Flyway, Liquibase
- AOP (AspectJ)
- Lombok
- Junit, AssertJ, Mockito, TestNG
- jQuery, JSON, HTML/CSS

#### Databases:

- Oracle, MySQL, PostgreSQL, HSQLDB
- MongoDB, Apache Cassandra

## APIs:

- Stripe
- Amazon CloudSearch

## Build tools:

- Gradle, Maven

## Version control systems:

- Git

## Other:

- Tests coverage tools (JaCoCo, Emma, Clover)
- Sonar, Findbugs, Checkstyle, PMD
- Jenkins, Concourse-CI, Hudson
- Atlassian JIRA/Confluence/FishEye/Crusible
- Github/Gitlab/Bitbucket

## Education:

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

Computer science specialist degree.

## Employment history:

**Toptal** (Dec 2015 - Current time)

Senior Software Engineer

Software architecture design and development

**Soshace** (Feb 2019 - Current time)

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

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**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 Toptal employee for PitchStone Technology, LLC (Jul 2019 — Mar 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>	Java8, 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>	<p>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.</p> <p>Involving:</p> <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 execution, results analysis and reporting</li><li>• Implementing a universal test execution infrastructurefor the generated images for the other technologies like ruby, node.js, python, go, etc.</li></ul>
<b>Technical base:</b>	Java6 - 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

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

<b>Slot machines backend</b>	
<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

**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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<b>NextWave eNewsletter (Multi-level marketing engine)</b>	
<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
<b>DriveDev (PayPal Enterprise Portal/PayPal Dual Controls)</b>	
<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
<b>Deutsche Bank Openadaptor</b>	
<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
<b>Golden Gate University Path2Complete</b>	
<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
<b>Exadel E7</b>	
<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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<b>Partnership program administrative area for sites registered in “Singlescrowd Partnership Network” and “Adultcrowd Partnership Network”.</b> <b><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>	
<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
<b>Partnership program registration site for “Singlescrowd Partnership Network” and “Adultcrowd Partnership Network”.</b> <b><u>Inactive at the current moment (<a href="http://dating.world-dating-partners.com">http://dating.world-dating-partners.com</a>)</u></b>	
<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 languages;
- Distributed and high-load architectures;