

Igor Y. Pavin

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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 (Java 11)
- Python 3
- Bash
- a bit of Javascript

Technologies and frameworks:

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

Databases:

- MySQL, PostgreSQL, Oracle
- MongoDB, Apache Cassandra

APIs:

- Stripe
- Amazon CloudSearch

Other:

- Git, Gradle, Maven
- JaCoCo, SonarQube
- 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:

Inno.tech (Aug 2020 – Current time)

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

Toptal (Dec 2015 – 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)

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 Inno.tech employee (Aug 2020 — current time)

| Credit conveyor | |
|------------------------|--|
| Description: | Develop a “credit conveyor” infrastructure for bank. <ul style="list-style-type: none">• Microservices development• Metrics monitoring and code optimization/parallelization• Third-party services integration |
| Technical base: | Java8, Openshift, Kafka, Grafana, Kibana, Spring-boot, Oracle, PostgreSQL, Gradle |
| Position: | Senior Java Engineer |
| Platform: | Linux |

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

| Glamhive | |
|------------------------|---|
| Description: | Support and improve the personal stylists services portal. <ul style="list-style-type: none">• Redesigning the REST API to meet the new requirements• Implementing user stories according to the new specification• Improving the integration with Stripe API• Dockerizing the existing apps |
| Technical base: | Java8, Docker, MongoDB, Amazon CloudSearch, Stripe, Swagger |
| Position: | Senior Java Engineer |
| Platform: | Linux |

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

| Sscreen java APM agent test infrastructure | |
|---|---|
| Description: | <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"> • 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); • 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; • Building an infrastructure for integration tests on CI-server execution, results analysis and reporting • Implementing a universal test execution infrastructurefor the generated images for the other technologies like ruby, node.js, python, go, etc. |
| Technical base: | Java6 - Java 13, java application servers (see above), APM agents (see above), Docker, MySQL, PostgreSQL, TestNG, Testcontainers, Python, Bash, Gradle, Google Cloud Platform |
| Position: | Senior Java Engineer |
| Platform: | Linux |

As #Place employee (May 2017 — Jan 2019)

| Slot machines backend | |
|------------------------------|--|
| Description: | 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. |
| Technical base: | Java 11, Spring-boot 2, JDBC, Docker, Grafana, Prometheus, Flyway, Lombok, Junit 5 |
| Position: | Senior Java Engineer/Architect |
| Platform: | Linux |

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As Dubit Limited employee (Apr 2016 — Apr 2017)

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

As Crossover employee (June 2015 — Mar 2016)

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

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As Exadel employee (September 2007 — May 2015)

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

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

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

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

| Payments processing site (http://payments.world-dating-partners.com) | |
|---|--|
| Description: | 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 (http://cybersource.com) payment provider. |
| Technical base: | Spring framework, Apache, Tomcat, Oracle |
| Position: | System Architect/Tech Lead |
| Platform: | Clustered web-server configuration, Linux |
| Web content building module | |
| Description: | <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">• inheritance of the web content (JSP, styles, images, js-scripts, mail templates) from one site by another;• overriding of the inherited web content. |
| Technical base: | JSE, Ant, TestNG, AspectJ, JNI |
| Position: | Lead Engineer/System Architect |
| Platform: | Linux + Windows |
| Worldwide dating site with the partnership network. (http://singlescrowd.com) | |
| Description: | <p>Dating site where the people can find their match. The system has such features as:</p> <ul style="list-style-type: none">• IM-chatting• Rich criteria matching mechanism• Powerful partnership network |
| Technical base: | Springframework, Tomcat, Apache, Web services, Oracle |
| Position: | Lead Engineer/System architect |
| Platform: | 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 (http://d-admin.world-dating-partners.com)</u> | |
| Description: | Partnership program administrative area for “ <i>Singlescrowd Partnership Network</i> ” and “ <i>Adultcrowd Partnership Network</i> ” (Inactive at the current moment) |
| Technical base: | <i>Tomcat, JBoss, MySQL</i> |
| Position: | Developer |
| Platform: | Clustered web-server configuration, Linux |
| Partnership program registration site for “Singlescrowd Partnership Network” and “Adultcrowd Partnership Network”. <u>Inactive at the current moment (http://dating.world-dating-partners.com)</u> | |
| Description: | Partnership program registration sites for “ <i>Singlescrowd Partnership Network</i> ” and “ <i>Adultcrowd Partnership Network</i> ” (Inactive at the current moment) |
| Technical base: | <i>Tomcat, JBoss, MySQL</i> |
| Position: | Java Engineer |
| Platform: | Linux |

Interests and hobbies:

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