

# Dmitry Serpakov

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## Profile Summary

Proactive, ambitious and flexible Principal Software Engineer, successful in launching high-traffic robust and scalable web services. Versatile and resourceful in critical situations and detail-oriented in solving problems. Excellent IT skills with an analytical approach and comprehensive thinking. Experienced in team leading and handling several projects at the same time.

## Professional Skills

Driving Dev Team, Project design and Software Architecture Elaboration, Object Oriented Programming, Time Management.

**Proficient in:** Team Leading, Technical Leadership, TDD, BDD, Agile/Kanban, Java, Python, AWS Vert.X, Cassandra, PHP(5.3+), Memcache, MySQL, PostgreSQL, AMQP, JavaScript, HTML, CSS, XML, XSLT, JQuery, Grunt.

**Able to use:** Solr, Elasticsearch, Sphinx, MSSQL, Node.JS.

**Tools:** git, IntelliJ, Jira, Confluence, SQL Tools, Pages/Numbers/MS Office, Draw.io/MS Visio/Omnigraffle.

**Also know:** C#, Axure, Unity.

## Career Summary

### Principal Software Engineer for SCV (Single Customer View)

#### *British Broadcasting Corporation (the BBC)*

*November 2015 – Present (9 months), London, United Kingdom*

My main responsibility as a Service owner of Single Customer View team is to manage dev and qa teams to deliver valuable, high quality products meeting deadlines and build a successful relationship between business and software development. Translate business requests to technical solutions, advise on additionally required or necessary functionality, look after software security of the team products, drive development according to roadmap and be a hands-on member of development team.

My team domain is big data processing, so the main challenge is to accommodate, transform and enrich extremely high volumes of data within the short period of time and restrict access to this data only to allowed people. Using full power of AWS cloud platform and diversity of team skills I need to build stable, scalable and very much performant components to achieve this goal.

Technologies: Java, Python, Bash, AWS, SQL, Hadoop, Spark, Camel, AMQP (AWS SQS), PostgreSQL (AWS Redshift), Streaming (AWS Kinesis), Microservices (AWS Data Pipelines), Data Dog/Cloudwatch.

Tools: Git (github, sourcetree), Jira, Confluence, IntelliJ, PyCharm.

### Senior Software Engineer

#### *EF Education First*

*April 2014 – November 2015(1 year 8 months), London, United Kingdom*

Launched online testing engine - EFSET.

Was involved in all parts of the development process:

- Building robust and scalable server-side application;

- Writing unit and integration tests for server-side components
- Developing business logic on a frontend for computation and communication with backend
- Elaborating and brainstorming future product features
- Writing technical documentation.

Technologies used: Java, Vert.X, Cassandra, Solr, Elasticsearch, HTML, CSS, JavaScript, TroopJS, JQuery, AMD, Grunt.

Tools used: GIT (github, stash), Jira, Confluence, IntelliJ.

## **Web-architect**

### ***PRIME Business News Agency JSC***

*March 2012 – April 2014 (2 years 2 months), Moscow, Russian Federation*

Launched modern mass media project with financial data visualization. Designed and launched labour statistic service. Created new back-end with intuitive UI. Conducted a technical audit of critical project.

- Technical analysis and audit
- Time management (team development, projects, outsource developers)
- Project design
- Front-end and back-end development
- Financial data visualisation (enhanced financial market data)
- Big-data management and migration from MSSQL to Oracle

## **Head of Web Development Department**

### ***INews LLC***

*October 2009 – March 2012 (2 years 8 months), Moscow, Russian Federation*

Launched modern main mass media project. Produced several satellite mass media businesses, entertainment (show business) and sport projects. Created new back-end with intuitive UI. Developed TV broadcasting design. Solved a lot of critical security errors.

- Time management (team development timing, projects timing)
- Mass media front-end and back-end high-load project design and development
- Big-data migration and management
- IT architecture elaboration
- Team leading (over 4 teams)
- Critical situation solving.

## **Developer**

*Was promoted in half a year to Head of Web Development Department*

Updated back-end part of the main company's mass media project. Took leadership under developer team.

- Mass media front-end and back-end high-load development
- Old software maintenance
- Team leading and critical problems solving.

## **Lead Developer**

### ***Freelance***

*June 2009 – October 2009 (5 months), Moscow, Russian Federation*

Oversaw all aspects of project management and development from start to finish. Developed several e-commerce and e-trade projects. Created several online web-services and interactive sites.

- Web-services and e-commerce projects development (online payment, finance controlling, customers controlling, orders management, discounts and special offers distribution, unique statistic services)
- HTML-coding
- Setting up and maintenance projects.

## Developer

### *Eurosite LTD*

June 2005 – June 2009 (4 years 1 month), Moscow, Russian Federation

Maintained clients' projects. Developed several e-trade and e-commerce projects. Coded a lot of projects with cross-browser maintenance.

- Front-end and back-end development
- HTML-coding, DHTML-scripting (inline-iframe/AJAX dynamic navigation, user interaction)
- E-commerce development (online payment, finance controlling).

## Projects

- Big-data processing realtime and batch workflow for Single Customer View at BBC
- EFSET – the world's first free standardised English test
- PRIME – international business news agency [lprime.ru](http://lprime.ru)
- Lifenews.ru – 24-hour Russian news service with an emphasis on fast information publishing [lifenews.ru](http://lifenews.ru)
- Lifesports.ru – Sport branch of Lifenews news agency with standings and live streams [lifesports.ru](http://lifesports.ru)
- Izvestia.ru – Reputable Russian business news agency [izvestia.ru](http://izvestia.ru)
- Marker.ru – Extended business analysis branch of Lifenews news agency [marker.ru](http://marker.ru)
- Potrebim.ru – Unique electricity optimizing web-service [potrebim.ru](http://potrebim.ru)
- Konisport.ru – Equestrian sport e-trade online shop [konisport.ru](http://konisport.ru).

## Education

### **Moscow State University of Psychology and Education (MSUPE)**

#### *Bachelor's degree, Computer Software and Media Applications*

2002 – 2007

Graduation essay topics: «Modern intuitive user interfaces», «Sound pattern recognition research», «Neural network recognition research and using».

- Project design;
- Big-data management;
- Web development;
- Computer programming;
- Psychology analysis;
- Project architecture elaboration.

### **High-school (with maths specialization)**

1991 – 2002

Participant of school clubs. Played in band. Played in ice hockey youth team.

## Courses

### **Kaplan College-Oxford**

#### *English course with Business Elective (Higher Intermediate)*

July 2013

Studied management styles, business improvement, brand promotion, product presentation.

## Interests

Software development (work, hobby and whole my life), Traveling, Photography, (Motor)Cycling, Going to the gym, Ice hockey and sports in general.

References are available on request