

Sergey Zhukov

FULL-STACK JAVA DEVELOPER · SENIOR DESKTOP DEVELOPE

Saint Petersburg, Russia

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Education

ITMO State University

Saint Petersburg, Russia

B.S. IN INFORMATION SYSTEMS AND TECHNOLOGIES

2007 - 2012

Skills _____

Programming languages Java, Javascript, Delphi, C++

Web HTML5, ECMAScript6, LESS, Bootstrap

Databases MySQL, MSSQL, SQLite, MongoDB

Tools and Services Git, SVN, Bash, PowerShell, Continuous Integration (Travis, GitLab CI)

Experience _____

ITVA Saint Petersburg, Russia

SENIOR DESKTOP DEVELOPER 2010 - 2017

• Lead developer on a number of projects:

- Native Windows applications
- Cross-platform applications for Windows and MacOS
- Web services
- Libraries for internal usage within a team (internationalization library, persistent settings library)
- Was responsible for development and release of more than 10 software products
- Used technologies:
 - Programming languages: Delphi, C++, Javascript
 - UI frameworks: VCL, Firemonkey, Skinbuilder, Sciter, CEF
 - Libraries and databases: libtorrent, bass, MySQL, FireDAC, SQLite

Upwork Remote

FREELANCER 2016 - present

- Profile https://www.upwork.com/freelancers/01fe466a51a96a2b6a
- Average project rating 5.00/5.00
- 20 jobs in different areas:
 - Java
 - Javascript/jQuery
 - Windows and MacOS installers
 - Various desktop projects: launcher and installer for MMO game, custom Chromium build, visual components for Delphi VCL

 VBrand
 Remote

 FULL-STACK JAVA DEVELOPER
 Mar. 2017 - present

• Implemented a screen capturing system (PowerShell, FFmpeg)

Implemented a client-server application for video processing (cutting/merging/converting). RESTful API; Backend - Java, FFmpeg; Frontend - Javascript, Bootstrap, ¡Query

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Self-motivated projects

Maze generator GitHub project

JAVA, GRAPH THEORY, SERVLET API

- Web application http://zhukovsd.github.io/maze-generator/
- Algorithm works with planar graphs, which allows building mazes of arbitrary shape
- · Finished generator was user during the implementation of maze solving Android game

Multiplayer minesweeper on infinite grid

GitHub project

2015 - 2016

2016

JAVA, MONGODB, CONCURRENCY, WEB SOCKETS, HTML5

- Web application http://5.101.123.222:8080/online-minesweeper/
- Backend JavaEE application, Frontend HTML5/JS/Canvas, communication protocols HTTP, WebSocket
- The grid is conventionally infinite and lazy-generated. A single unit is a chunk an area of NxM cells
- A chunk is a unit of every internal interaction within the application:
 - Cells fetching from DB happens by indexed chunkID field
 - Fine-grained locking mechanism locks the field by chunks
 - Field area requesting by clients

Notable work projects

Loviotvet.ru

DELPHI 2010 - 2012

- Smart calculator for solving and simplifying math expressions and equations
- Self-implemented solving engine based on reverse polish notation builds a simplifications tree which allows displaying a solution in step-bystep fashion
- · Supported math operations:
 - Common and decimal fraction operations
 - Polynomial operations including division
 - Solving linear and square equations
- A web service based on solving engine exposes RESTful API and serves requests from mobile clients and web application
- Freeware desktop, mobile and web clients were released for CIS market. Mobile clients have 500k+ installs, the service app served more than 12 millions of requests

An application for processing video content

Java, Javascript, Bootstrap

A client-server application for processing (cutting/merging/converting) video content. Typical usage is to create highlights clip from a show or
to cut out ads from a broadcast record

- · Architecture:
 - Backend Java, FFmpeg
 - Frontend Javascript, Bootstrap, jQuery
- Backend service exposes RESTful API which serves requests from web app UI views
- · Supported video sources:
 - Direct URL
 - Torrent file
 - Youtube video URL

Plugin player

DELPHI, C++ 2015

- Plugin which allows watching videos though p2p (torrent) protocol directly in browser
- The application consists of a "host" application which loads torrents and communicates with browsers. There are a number of standards for plugin implementation, so the application implements most popular ones:
 - PepperAPI (Chrome, WebKit-based browsers)
 - NPAPI (Firefox, pre-WebKit Opera)
 - ActiveX (Internet Explorer)
- "Host" application loads torrents using Delphi wrapper for libtorrent C++ library
- "Host" application communicates with plugins using Windows Messages
- UI for plugins is implemented with a Skinbuilder UI framework which is built on top of WinAPI