

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 ES6, HTML5, LESS, Bootstrap Databases MySQL, MSSQL, SQLite, MongoDB

DevOps Docker, Docker Swarm, Jenkins, Travis CI, GitLab CI, Circle CI, Bash

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

• Implemented a screen capturing system (PowerShell, FFmpeg)

Mar. 2017 - May 2017

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

Code Partners Remote

SENIOR FULL-STACK DEVELOPER • Various outsourcing project mostly involving C++ and Delphi June 2017 - present

· Architecting project ecosystem which involves building a stack of microservices with Docker and Docker Swarm. Prototyping project components - Jenkins plugin (Java), OAuth2 provider, PHP-based REST API. Deployment workflow (staging and production environments), automated tested implemented with Jenkins pipelines.

SERGEY ZHUKOV · CV AUGUST 17, 2018

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

Typing test GitHub project

KOTLIN, SPRING, ES6, PUGJS, WEBPACK, CIRCLECI, DOCKER SWARM

- Web application http://88.99.12.213/
- · A simple 1-minute typing speed test with frontend built with ES6/Pug. is. Each test result gets submitted to the backend (built with Kotlin/Spring) which responds with player's placement and stores typing speed characteristics (characters per minute, typos count) to the persistent Redis
- The app runs two microservices, the first one encapsulates Tomcat, which runs Spring application. The second microservice runs a Redis
- · CircleCI pipeline builds the app (frontend with Webpack and backend with Maven) and deploys it to the remote Swarm cluster
- Full project overview is available on GitHub README.md

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 2017

 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