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Summary_

Software engineer with 4+ years of professional experience. Most recent experience includes Java (5+ years) and Scala (2+ years) development. Previous experience includes 2+ years of C++ development and 1+ year of project management. Notable accomplishments:

- Designed and developed complex services for various Java projects. Always delivered fully documented clean and clear code.
- Successfully managed a small team on a Java project.
- Created three novel algorithms in the fields of computer vision and image processing.
- Wrote several publications in the field of computer vision.

Specialties: Java, Scala, C++ development.

Experience _____

Self-employed Worldwide

SENIOR SOFTWARE ENGINEER Feb. 2015 - PRESENT

Currently working remotely on a Java trading platform in a small firm. Other notable projects:

- Writing software developments articles on a personal website: foat.me. It mostly includes Scala articles.
- Wrote a book in the fields of computer vision and web development: [1].
- · Designed and implemented robust and fast algorithm for multiply chalkboard detection. It works in real-time and processes more than 40 HD images per second on a regular computer. The pixel precision is higher than 90%.
- Created a Java throttling framework from scratch using Spring MVC and AspectJ.

Related skills: Scala, Java, DevOps, Unit testing, Mocking, Aspects, TDD, BDD, JavaScript, C++, Spring Framework, Play framework, OpenCV, Build automation tools, Git, Computer vision, Image processing.

Center for Machine Perception

Prague, Czech Republic

Apr. 2013 — Jul. 2013

COMPUTER VISION RESEARCHER Nov. 2014 — Jan. 2015

Worked as a researcher and developer on a project in the field of Image rectification using vanishing lines and local affine frames. Notable achievements:

- Designed and developed a line-annotation tool on Matlab.
- Created a test system for vanishing points and lines detection algorithms using C++ and Matlab.
- Improved existing vanishing points detection algorithm.

Related skills: C++, Matlab, Unix, Git, Computer vision, Image processing.

RoadAR Kazan, Russia

COMPUTER VISION DEVELOPER Jul. 2013 — Sep. 2014

Worked on a RoadAR project. The application warns drivers about traffic-signs and other necessary information. Notable achievements:

- Created a novel algorithm for traffic-sign detection and recognition, which works in real-time on mobile phones. The algorithm showed a superior performance compared to many state-of-the-art approaches. The algorithm is implemented on C++.
- Designed a test system using Java for the traffic-sign detection algorithm.

Related skills: C++, Java, OpenCV, Unit testing, PostgreSQL, Swing, Maven, Android NDK, Boost library, CMake, Git, Computer vision, Image processing, Machine learning.

Digital Zone Kazan, Russia

• Managed a small team on a mobile version of m.ulmart.ru website.

· Conducted technical interviews.

SENIOR SOFTWARE ENGINEER

Related skills: Java, MySQL, Spring MVC, Apache Solr, JavaScript, Application servers, Freemarker, Git, Maven.

Digital Zone Kazan, Russia

Sep. 2011 — Apr. 2013 SOFTWARE DEVELOPER

Developed complex services for several high-loaded websites. Mostly worked on ulmart.ru project. Notable achievements related to this website:

- Built a search platform based on Apache Solr.
- Created an asynchronous catalog of goods using JavaScript and Spring MVC.
- Designed and implemented a new database. This helped to remove several bottlenecks and improve the website performance.

Related skills: Java, GWT, DevOps, Spring MVC, MySQL, EJB, Apache Solr, JavaScript, Application servers, Freemarker, Version control, Build automation tools.

Education

Kazan Federal University

Kazan, Russia

2008 - 2012

MSC IN COMPUTER SCIENCE 2012 — 2014

ADVISOR: EVGENY STOLOV

Fields of interest: computer vision and image processing. Master thesis:

• 3D scene reconstruction from a single view. Resulted in a paper called *Surface Prediction for a Single Image of Urban Scenes*. It was presented in Singapore in 2014 on the SUAS 2014 workshop. The article itself was published in 2015: [2].

Related skills: Matlab, C++, T_FX, Computer vision, Image processing.

Kazan Federal UniversityKazan, Russia

BSc in Computer Science

ADVISORS: EVGENY STOLOV; ALEKSANDR SHLYANNIKOV

Fields of interest: computer vision and image processing, machine learning, web development. Projects:

- · Handwritten digit recognition using Java.
- E-library using GWT.

Related skills: Java, JEE, GWT, Computer vision, Image processing, Machine learning.

It& programming skills

Main languages Java, Scala, C++

Data analysis Matlab

Scripting languages Shell script, JavaScript Markup languages XML, JSON, HTML, CSS

Query languages SQL

Application and web servers JBoss, Tomcat, Jetty

Revision control Git, Subversion

Build tools Maven, Gradle, CMake, SBT

Systems on administration level OS X, Linux

Other Spring Framework, Play framework, OpenCV, Swing, Android NDK, MySQL, PostgreSQL,

TDD, BDD

Digital typesetting TFX, MTFX

Languages

Russian native speaker

English professional proficiency

Publications

- [1] F. Akhmadeev, *Computer Vision for the Web*. Packt Publishing, 2015. [Online]. Available: https://www.packtpub.com/web-development/computer-vision-web
- [2] ——, "Surface prediction for a single image of urban scenes," in *Computer Vision ACCV 2014 Workshops*, ser. Lecture Notes in Computer Science, C. Jawahar and S. Shan, Eds. Springer International Publishing, 2015, vol. 9008, pp. 369–382. [Online]. Available: http://dx.doi.org/10.1007/978-3-319-16628-5_27