**Aleksei Parfenov**

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| Github | [github.com/kantengri](https://github.com/kantengri) |
| Telegram | @aparfenov2 |

**Summary of qualifications:**

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| * Over 10 years in software engineering * System software development | * Computer languages: Java, C/C++, Python * Languages: Russian, Fluent; English, IELTS 6 |

**Employment History:**

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| **NIIIT-RK** |  |
| ***C++/Python Software Engineer*** | Oct 2022 – Current |

* ML experiments with time-series prediction models.  
  Python/Qt app development.
* Python, C++, Qt, QML, Linux, Docker.

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| **Arlo / ITS Partner** | [www.arlo.com](http://www.arlo.com/) [itspartner.net](http://itspartner.net/) |
| ***Computer Vision/Machine Learning Engineer*** | Dec 2018 – May 2022 |

* Developing, training, optimizing and evaluating machine learning models.  
  Data preparation and annotation pipelines with CVAT, celery.  
  Achieved 80% accuracy at raw color recognition task.
* Tools and frameworks: C++/Python. PyTorch, fast-reid, mmdetection. CVAT,   
  AWS, EC2, Sagemaker. Linux, Docker, CI/CD.

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| **ROCKET SOFTWARE** | [rocketsoftware.com](http://www.rocketsoftware.com/) |
| *Java Developer* | Nov 2014 – Dec 2018 |

* Developed JDBC driver for Mainframe Database.

Used Java Core, Collections, ByteBuffers, Reflection, Networking, Custom protocol, Cryptography: AES, Kerberos, multithreading, regex, OOP, patterns, Unit Testing, Functional Testing, Knowledge Transfer/Reuse from ODBC team.

* Developed Eclipse database UI. Used Eclipse RCP, Legacy Code, Refactoring, Code reuse, SWT.
* Led a team of engineers to write a database web UI and entered it into Rocket Software's Boston hackathon. Used Spring Boot, Hibernate, DOJO.
* Work in an international team, weekly meetings, Git, Subversion, Test Driven Development, QA, build automation with Bamboo, task management with Jira.

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| **RTS** | [nports.ru](http://www.nports.ru/) |
| *Software Engineer* | March 2010 – Oct 2011 |

* Designed and implemented UI on embedded system for complex embedded equipment.   
  Used OOP, C++, patterns, Protobuf, Microchip Harmony, PIC32, Visual Studio, NIOS II, TI DSP, Custom networking, FPGA, Verilog.
* Developed version of the UI for Linux embedded platform. Used LFS, configured display driver, kernel, Device Tree Compiler.
* Developed instrumental and research software with C++, C#, Java for Windows and embedded systems.  
  Applied hardware skills: wiring, soldering, testing, signal measurement with oscilloscope.

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| **MIAC** | [miac74.ru](http://miac74.ru/) |
| *Java Developer* | Jul 2009 – Feb 2010 |

* Created and maintained online application for medical user’ data collection over Internet using Adobe Flex framework. The application allowed collecting all required data from clients.

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| **METRAN GROUP** | [metran.ru](http://www.metran.ru/) | |
| *Software Engineer* | | Jan 2007 – Jul 2009 |

* Developed embedded software for pressure sensors using C\C++ with Object-Oriented approach. Took part in design of software architecture, worked in a team and did research of data processing algorithms.
* SCRUM, code review, version management, work in a team. ATMega, work with hardware, measurement and diagnostics.

**Education:**

* **2003 – 2005 South Ural State University**

Theory and practice of English language, Diploma ПП №761109

* **2001 – 2005 South Ural State University**  
  Design and development of electronic equipment, Diploma ВСВ 0728434

Professional Training:

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| 2019, **Deep Learning Specialization**, @Coursera https://www.coursera.org/account/accomplishments/specialization/certificate/6WB33V3ULXKB | |
| Apr 2018 - June 2018  **Computer Vision School at 3DiVi** |  |
| * During the training developed basic hand and face detector for RGB-D image source and won 2nd place with it at local competition. * Synthesis and augmentation of training data with 3D modelling software Blender. Training and validation of convolutional neural networks. Python: Keras, Tensorflow. * Covered Topics: PCA, RANSAC, non-max supression, eigenvalues, rotation matrix, quaternions, LSQ, mean shift, ICP, SLIC, SVM, HOG, KNN, SIFT, matching, neural networks basics. | |
| 2017, **IELTS Certificate** | obtained level 6 |
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