Artem Zolkin, Senior Software Engineer

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LINKS

LinkedIn, Github

PROFILE

Open-minded and self-motivated Software Engineer with CS and mathematics background, currently working as a Computer Vision Engineer at Samsung, making ISP algorithms with artificial neural networks and basic CV algorithms for 1.5 years. Additionally, have 3 years of experience of banking internal services and pay processing system development & support.

Have experience with:

- Languages: Python, C++
- Frameworks & libraries: TensorFlow, PyTorch, NumPy, Pandas, PyQt, OpenCV, Halide, Android SDK
- Tools: Git, Docker, CMake, Jenkins, TeamCity

PROFESSIONAL EXPERIENCE

Mar 2020 — Present

Computer Vision Engineer, Samsung R&D Institute Russia
Moscow

- Conducted part of the long-term research on same exposed raw burst merge, for which I created Python mini-framework for versioning, training and storing deep learning models, that served as a foundation for developing a more general tool for the team and migration from TensorFlow 1.x to 2.x.
- Landed approval and funding from HQ for new technology with development of the first demo of technology by making C++ application for embedded device to ensure feasibility of running developed neural net models from the team.
- Boosted ten times the speed of processing raw data with developing CV filters and algorithms using Halide, C++ framework.
- Brought structure into datasets preparation with creation of stage-based pipeline Python framework for processing raw data, featuring reusable modules and split job processing.
- Raised perceptual quality of raw image burst datasets by developing filtering algorithm for frame sequences based on estimation of homography matrices using Python and NumPy.
- Assisted expansion of raw dataset processing capabilities to outsource by developing a PyQt(Python + Qt) tool for imagery experts with main features as classifying images, extracting essential commentaries.

Apr 2017 — Mar 2020

Software Developer, Cinimex
Moscow

- Provided inclusion of a custom business logic for new clients into paying processing system by developing new features of C# back-end service and automated SQL scripts in a team of three.
- Paved the way for further migration from the legacy code base of the bank operator systems by reconstructing legacy adapters for ESB and rewriting them from VB to WebSphere based Java code.
- Maintained a banking auto-print service by migrating from legacy C# code based on 2 CLR up to 4 CLR.
- Implemented business logic for automated forming of hundreds of custom cashback promotions per day by developing WS based Java application in a team of two.

LANGUAGES

English	C1	Deutch	A1
Russian	Native speaker		

EDUCATION

2014 — 2018

Bachelor of Applied Informatics And Mathematics, Moscow
State Institute of Radio Engineering, Electronics and Automation
(Technical University)