Nikita Lockshin

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EDUCATION

Moscow State University named after M. V. Lomonosv   **Moscow, RU**
BA in Computer Science   *Graduated: June 2021*
Department: mathematical methods of image processing. For my diploma, I have developed a method of increasing robustness of DNN models against adversarial attacks.

Moscow State University named after M. V. Lomonosov   **Moscow, RU**
MS in Computer Science   *Expected Graduation: June 2023*
Currently working on histological adversarial image synthesis for dataset augmentation as a part of Masters' thesis. Thesis proposal accepted by Russian Science Foundation for funding.

EXPERIENCE

Samsung Research Russia   **Moscow, RU**
Software Engineer Intern   *February 2020 - July 2021*
- Participated in a team of 6 engineers working on an inner neural network accelerator, allowing less than half-second performance on 1 ARM CPU core;
- Implemented efficient algorithms for quantized neural networks (Winograd, 8i GEMM, Softmax LUT etc) for CPU and NEON;
- Deployed quantized CNNs via our network accelerator on flagship devices for CPU and NEON;
- Gained experience in development for ARM TrustZone.

Samsung Research Russia   **Moscow, RU**
Junior Software Engineer   *July 2021 – Present*
- Continued development and support of inner neural network accelerator for CPU and NEON;
- Developed custom quantized layers as PyTorch CPU extensions;
- Mild experience with Face Detection software (SSD).

TECHNICAL SKILLS

Platforms:
- Linux, Windows.

Programming languages:
- Strong knowledge of C and Python;
- Mild knowledge of C#, C++.

Frameworks:
- General python package environment (numpy, scipy, pandas etc.), PyTorch.

Additional developer tools:
- Git, Tensorboard, Jupyter Notebook / Lab, WandB.

ADDITIONAL

- Coursework: Developed an application for binary image segmentation using the GraphCut algorithm;
- Personal projects: MiniTorch, Customizable timetable for Android;
- Hobbies: 3D modeling, creation of near-realistic scenery via Blender, of which I am self-taught.