

RAMAZAN FAZYLOV

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Education

Moscow State University

Moscow

Bachelor of Science in Applied Mathematics and Computer Science

Aug. 2019 – May 2023

- Related Coursework: Computer Vision, Algorithms and Data Structures, Computer Architecture and Assembly, Linear Algebra, Discrete Mathematics
 - Cumulative GPA: 4.68/5.0
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Projects

Language Learning Website | *NodeJS, MongoDB, HTML, CSS, JavaScript*

Sept. – Dec. 2018

- Designed a system that helps people to learn foreign words easily with use of visual memory
- Built back-end architecture with database interactions
- Implemented Google Images scraper to retrieve images of words that need to be learned

Computer Vision Curriculum Tasks | *Python, Jupyter Notebook*

Sept. – Dec. 2021

- Implemented photo demosaicing algorithm based on Bayer filter and bilinear interpolation
 - Implemented Prokudin-Gorsky's camera channel's images merging into single RGB image
 - Implemented seam carving algorithm for image expanding and shrinking
 - Implemented JPEG and PCA image compression
 - Implemented photo panorama construction algorithm
 - Implemented face points detector model based on convolutional neural network and data augmentations
 - Implemented general neural network layers of PyTorch library using numpy and vectorization techniques
 - Implemented birds classifier by fine-tuning pre-trained on ImageNet model
 - Implemented GAN models: FCGAN, DCGAN, SRGAN
 - Implemented cars detection model using technique of converting trained fully connected layers into convolutional layers
 - Implemented U-Net and applied it for birds segmentation task
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Experience

Computer Vision Researcher

Jul. 2021 – Present

MSU Laboratory of Programming Technologies

- The goal is to automatize the work of microbiologists in measuring antibiotic resistance of bacteria
 - Implemented an algorithm detecting mold puddles around antibiotic pills and measuring their radius
 - Took part in developing of a desktop application for automatic antibiotic resistance detection
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Skills

Languages: Python, C/C++ , C#, MongoDB, JavaScript, HTML/CSS, Assembly

Natural Languages: Russian, English, Tatar

Developer Tools: Jupyter Notebook, Git, Linux, VS Code