Korolev Daniil

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TECHNICAL SKILLS

Programming Languages:

- Advanced in **Java, Swift , Python, Haskell**

Familiar with **C++, Obj-c, Kotlin**
Frameworks:

- **Python: numpy, pandas, sklearn, pytorch, implicit, catboost, word2vec.**

Working experience: **git, google colab**

EDUCATION

ITMO University, St. Petersburg

Bachelor's in applied mathematics and Informatics *2018—2022*

Relevant Coursework: ML, Recommender Systems, RL, *Algorithms and Data Structures, Computer Architecture, Discrete Mathematics, Programming Paradigms, iOS VK course, C++ course, Java course, Maths logic, Operating systems, Haskell course, CTF Reverse course, Translation methods course*

Presidential Physics and Mathematics Lyceum №239, St. Petersburg

WORK EXPERIENCE

Sixhands.co

August 2020—October 2020

iOS Junior developer

Mobile iOS application development for renting premises: Localchair

- Using Alamofire
- REST API
- Using MVP pattern with router

OK.ru

October 2020 — January 2021

iOS Junior developer

Upgrading mobile application for OK.ru social network. Implementing ad in feed, fix bugs.

- OK iOS SDK
- Instagram IGListKit framework
- Auto Layout
- Parser generator techniques

ML Projects

Deep-Q-Learning [Python] source code

- Implementations of Deep Q-learning algorithm for different gym environments
- Support Atari games with env preprocessing

Matrix Factorization algorithms for collaborative filtering [Python] source code

- Implementation of most common matrix factorization algorithms: *BPR, ALS, SVD, WARP*
- Tested on movielens dataset

Self-written Neural Network library [Python] source code

- Provides interface for linear layers
- Implemented different optimizers (*Adam, RMSProp, AdaGrad, Momentum*)
- Implemented different loss functions (*MSE, Cross Entropy*)
- Implemented init-schemes for weights

Music-WSDM competition on Kaggle.com [Python] source code

- Used techniques: NLP (*word2vec*), Gradient Boosting (*CatBoost*)

ML algorithm developing library: *https://github.com/Danielto1404/ML-ALGO*
University projects: *github.com/Danielto1404/Univeristy*