

Vadym Bezdushnyi

SOFTWARE ENGINEERING INTERN

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Education

Taras Shevchenko National University of Kyiv

B.S. IN COMPUTER SCIENCE

Kyiv, Ukraine

Sep 2016 - Jun 2020 (expected)

Employment

Digamma.ai

SOFTWARE ENGINEERING INTERN

Jul 2018 - Present

- Collaborating with United States Geological Survey(USGS) on land cover classification and landslide detection
- Developing a toolset to process high resolution multispectral satellite images(time-series data) with Python and GDAL/OGR
- Building ML models with advanced texture descriptors, deep neural networks for semantic segmentation, decision trees ensembles etc.

Projects

Yandex.Algorithm 2018(Optimization track)

- Challenge about finding the best route for every passenger and taxi-driver
- Combination of greedy algorithms, stochastic approximation, and low-level C++ optimizations
- Ended at 13th place out of 517

Algorithms visualizer

- Visualization for NP-hard problem solvers, numerical methods, and advanced graph algorithms
- Implemented using Python(flask, numpy) and JS(vis.js, Desmos), Heroku

Facebook location predictor

- Big scale ML model to predict user's country based on likes, friends, check-ins, profile language, etc.
- Facebook graph API, MongoDB, Python, xgboost

Time tracker

- Web-app for tracking your productivity and generate daily statistics
- Python, Django, PostgreSQL, Google Cloud

TetrisAI

- Genetic algorithm to find the best strategy based on heuristic features
- C# WinForms interface for visualization

Open Data & eHealth Hackathon

- Advanced to finals and got the 5th place with a website for tourists to find the best matching route
- Google Maps API for Data Mining, TensorFlow for Classification, deployed on Microsoft Azure

Skills

Fundamental Algorithms & Data structures, optimizations, data engineering, cloud computing

Technical C/C++(C++11, STL), Python(DS, scientific, web), SQL, HTML/CSS/JS

Soft Strategical thinking, collaborative, detail-oriented, proactive

Awards

- 2018 **8th place out of 490**, ACM ICPC Ukraine 2018
- 2017 **4th place out of 51(Div1)**, XIV Open Championship QBit
- 2017 **6th place out of 18(Div1)**, Students Summer School in Uzhgorod
- 2016 **Bronze medal**, All Ukrainian School Olympiad in Informatics(UOI)

Extracurricular

- 2017-18 **Judge & Problem Setter**, XXIV & XXV All Ukrainian Tournament of Champions(Informatics olimpiad)
- 2017-18 **Judge & Problem Setter**, NetOI Final Round(Open All-Ukrainian online olympiad in Informatics)