Nikolay Zinov

CV

Education

2014–present	**BS**, *Moscow Institute of Physics and Technology*, *GPA: 8.8/10*, Major in CS.
grad. 2014	**High School**, *Moscow School 57*.

Skills

category 1	Algorithms and data-structures in C++ and Python	category 2	Machine learning and neural networks
category 3	Full-stack web (HTML, CSS, JavaScript, Django). Minor exp. with Tornado, Angular, Ionic	category 4	Linux administration + Docker
category 5	Math and physics background		

Languages

Russian	**native**
English	**good written and spoken**

Experience

Employment

2018–present	**Software engineering intern**, *dialog systems («Alice» personal assistant)*. Responsibilities include improving and experimenting with deep learning models for general conversation (small talk) feature of Alice personal assistant.

Projects

2018	**AI accompanist**, *technical lead in a group project*. Using machine learning to compose and perform accompaniment for live performance, adapting to the soloist in real time
2017–2018	**Threat detection in X-ray security imagery**, *group project*. Commercial solution to detect dangerous objects in luggage. State-of-the-art object detection networks are fine-tuned for X-ray imagery.
2017	**Dolphin signals study**, *group project for Institute of Oceanology (SIO) RAS*. Using machine learning (neural networks) to cluster pulse-tonal signals of bottlenose dolphins - article pending.

2017 **Yes And No Puzzle Telegram Bot**, *group project*.
https://telegram.me/yes_no_puzzle_bot — Telegram bot that can answer yes-or-no questions on some situation using crowd-sourcing and similarity search

2016 **Ray-tracing renderer in C++**, *as a term assignment*.
https://github.com/nzinov/ray-tracer — 3D scene rendering from STL and customary format files

2014 **"Phystech sea battle" web game**.
https://github.com/nzinov/phystech-seabattle — using Django + Tornado for WebSockets

2013 **"The Hat" game statistics server**, *group project in summer school*.
https://github.com/parallel-p/thehat — using statistics gathered from players to enhance word recommendations and provide data for linguistic studies

Minor projects and participation in open-source.
See my GitHub account: https://github.com/nzinov

Hackathons

Fall 2017 **HackUPC**, *Doist's challenge **winners***.
Integration for Twist messaging app, that detects when there are multiple conversations going in one channel and proposes to move users involved in one of those to a new thread automatically

2017 **HackZurich**, *Thomas Reuters' workshop*.
ML-backed solution to augment news stories with relevant photos of recent events (disasters, sports, accidents) from common people on social media.

Hobbies

1 Music (violin player)
2 3D-printing and DIY
3 Mountain hiking