

# andrewstepanov

curriculum vitae

## contact

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## languages

russian - native  
english - C2  
french - A1

## coding

Python, C, C++  
Bash, R  
Cython, Java, C#  
GLSL

## frameworks

Tensorflow, Keras  
Django, Bootstrap, Kivy  
OpenGL, Unity  
GRPC, Protocol Buffers

## skills & technologies

Docker, Docker  
Compose, Git, Envoy  
deep learning, speech  
recognition, computer  
vision, machine learning

## education

2017 – Present	<b>M.Sc.</b> Majoring in applied mathematics and CS	Moscow Institute of Physics and Technology
2017 – Present	<b>Student</b> Specializing in CS	Yandex data school
2013 – 2017	<b>B.Sc.</b> magna cum laude Majoried in applied mathematics and CS Thesis: <i>Character-level RNNLM for morphologically complex languages in speech recognition</i> GPA: 4.9 / 5	Moscow Institute of Physics and Technology
August 2012	<b>Summer camp student</b> Specialized in algorithms and data structures	Summer informatics school
August 2011	<b>Summer camp student</b> Specialized in algorithms and data structures	Summer informatics school
2002 – 2013	<b>Student</b> magna cum laude Specialized in mathematics and physics	Samara lyceum of information and technology

## experience

July 2016 – Present	<b>Data Scientist</b> Work on speech recognition system for call-center conversations, including: <ul style="list-style-type: none"><li>• gathering and cleaning speech data for training</li><li>• training and evaluating deep learning models with Tensorflow</li><li>• successfully applying microservice patterns to facilitate system decomposition</li><li>• using Tensorflow Serving and GRPC to serve trained models in production</li><li>• setting up communication bus for microservice architecture with Envoy</li></ul>	Tinkoff Bank
April 2017 – Present	<b>Lecturer</b> Gave several lectures on deep learning, machine learning and speech recognition in fintech	Fintech school

## awards & certificates

July 2017	<b>TOEFL iBT</b> Result: 105 / 120 PDF or paper certificate available upon request	MBA Strategy
April 2016	<b>Tinkoff Chatbot Challenge</b> Developed a chatbot for financial service support using Python and Elasticsearch, earned 1st place	Boosters
March 2013	<b>Russian olympiad in informatics</b> Prize-winner	Ufa, Russia

## projects

Oct 2017	<b>Android developer</b> Developed license plate recognition system and geolocation services at HackUPC challenge.	Car Radar
Feb – Jun 2017	<b>C++ game developer</b> Developed a simple OpenGL game with C++ and GLSL	Island game
Dec 2016	<b>Full-stack developer</b> Worked in a team that developed a service for car drivers to upload and visualize their geo-tagged tracks.	mapdrive
Sep – Nov 2016	<b>Python game developer</b> Took part in development process of an Acromage-like card game for US presidential election 2016. Used Python and Kivy framework to implement game logic and UI.	TrumpStamp
Aug 2016	<b>Chatbot developer</b> Worked in a team that developed Telegram chatbot for point of sale consumer financing using Telepot and Python.	Undisclosed project
Feb – Jul 2016	<b>Full-stack developer</b> Took part in development process of a service that automated acquisition of key computational resources (CPU, GPU, RAM) for machine learning tasks using containerized environment. Used Django, Docker and Docker Compose to develop and automate key service processes. Also used HTML, CSS, Bootstrap to design and implement comprehensive user experience.	getnb.io
Oct 2012 – Apr 2013	<b>Android Developer</b> Developed Android application for smart photo editing using optimization techniques and computational algorithms. Worked on and successfully implemented deconvolution algorithms and fast fourier transform for image processing. Also developed UI and main application architecture and logic.	Deblurlt (Goolge Play link)

## online courses

Jul – Aug 2016	<b>Unsupervised learning</b> Part of Machine learning and data analysis specialization by MIPT and Yandex. Earned course certificate	Coursera
Jul – Aug 2016	<b>Supervised learning</b> Part of Machine learning and data analysis specialization by MIPT and Yandex	Coursera
Feb – Mar 2016	<b>Python and mathematics for data analysis</b> Part of Machine learning and data analysis specialization by MIPT and Yandex. Earned course certificate	Coursera
Jan – Feb 2016	<b>Android Fundamentals by Google</b>	Udacity