Robert **Balayan**

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Recent University of Toronto graduate trying out Gradient Ascent IRL. Looking to work with Natural Language Processing and Machine Learning.

summary

- Experienced in Machine Learning, Natural Language Processing and Computational Linguistics, General AI Theory, and Knowledge Representation
- Languages: Python, C, Java, Matlab, R
- Frameworks and tools: NumPy, TensorFlow, keras, Hadoop, NLTK, Trifacta
- Solid mathematical and statistical background

education

2014-2017 **HONOURS BACHELOR OF SCIENCE**
University of Toronto, Canada
Computer Science Specialist with Focus in Artificial Intelligence
Fields studied:
- Machine Learning, Convolutional and Recurrent Neural Networks
- Computational Linguistics and Formal languages, Natural Language Processing, Phonetics
- General AI theory, Knowledge Representation and Reasoning
- Graph Theory and Algorithm Design
- Statistics, Linear Algebra and Multivariable Calculus

2012-2014 **ACCELERATED HIGH SCHOOL COMPLETION & UNIVERSITY TRANSFER PROGRAM**
Columbia College, Vancouver, Canada
Completed grades 11 and 12 in two semesters and then studied various first year science courses to later transfer to University of Toronto
- Studied basic Computer Science, Calculus and Introduction to Physics
- Created Video Gaming Club and hosted weekly meetings

2011-2012 **ACCELERATED COLLEGE DIPLOMA PROGRAM**
English First Vancouver, Canada
Studied to improve English language skills, preparing for TOEFL to continue education in Canada.

2000-2011 **PRIMARY AND MIDDLE SCHOOL**
School #308, Moscow, Russia
Gymnasium with a Math and Physics focus.

skills and experiences

- High programming skills in Python and experience using Numpy, Tensorflow, NLTK, various SQL libraries and XML processing libraries. Experience programming in C/C++, Java, Matlab and R.
- Experience designing both discriminative and generative models for image classification, voice recognition and language modeling.
- Experience with machine translation. Implemented IBM Model-1 and trained it on Hansard corpus for English-French translation.
- Experience designing relational databases and implementing them in MySQL, PostgreSQL and SQLite. Experience managing data using Hadoop.
- Experience building Context Free Grammars for abstractly defined languages as well as approximating natural languages. Experience analyzing speech recordings using Praat.
- Experience typesetting research papers using LaTeX language.

languages

English	Fluent
Russian	Fluent
Armenian	Conversational
Japanese	Basic

interests and hobbies

Artificial Intelligence: I have always been interested with AI and inspired by its portrayal in science fiction. It is my dream to work on implementing a general AI.

Sports: I am an avid cyclist. I train with the University of Toronto Road Racing team and participate in various local cycling events. During my recent trip to Japan, I climbed Mount Fujiyama on bike. I also enjoy diving and have various advanced diving certifications. Recently developed interest in motorsports, regularly practice racing in simulations.

Traveling: I enjoy traveling whenever I have the opportunity. I have visited many countries, including Japan, Spain, France, Italy, England, Germany, Egypt, Turkey, Georgia and Armenia. Lately, I have been traveling with my road bike and touring in the places I visit.

GunPla: I enjoy building plastic model kits and have a collection of Gundam and Warhammer 40K figurines.

Magic the Gathering: I enjoy the card game as a challenge for building the best deck possible out of limited resources provided. Occasionally participate in tournaments.