

Emil Emilov Indzhev

EDUCATION

2018 – PRES. **St Catherine's College,
University of Oxford, UK**
BSc & MSc Computer Science
First year grade: 85.75/100
First year rank: 2nd place

2013 – 2018 **Baba Tonka Upper Secondary
Mathematical School, Bulgaria**
Secondary Education
Final grade: 5.91/6

WORK EXPERIENCE

JULY 2019 – SEPTEMBER 2019

Ocado Technology

Software Engineer, Intern

Part of the Machine Learning Research team in Sofia. Worked on a reinforcement learning project about training a robotic arm. Added features to the company branch of the Robosuite simulator.

SEPTEMBER 2018 – FEBRUARY 2019

Musala Soft

Software Developer

Developing algorithmic problems for and generally managing Musala Soft's international programming competition CodeIT.

ONGOING

Informatics Competitions

Problem Setter

Frequently setting problems for Bulgarian national and international competitions such as IATI.

PERSONAL PROJECTS

Kigurai

A machine learning library for C++ built from scratch. Supports the most common types of networks such as CNNs. Still is a work in progress.

Evolving Snakes

Snakes in an environment similar to the classical game Snake are controlled by neural networks and can reproduce. The snakes evolve, while varying emergent behaviors arise.

Physics Simulation

Physics simulation made up of basic building blocks. Complex physical phenomena, such as wave diffraction and electric dipoles, appear without being pre-programmed in the simulation.

IUPAC Name Generator

Generates the scientific names of complex organic compounds according to the IUPAC specifications.

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ACHIEVEMENTS AND AWARDS

- 2018 **Microsoft Bubble Cup**
Finalist, with team nikva tikva
- 2017 **International Autumn Tournament in Informatics**
Bronze Medal
- 2017 **International Linguistics Olympiad**
Bronze Medal
- 2016 **International Autumn Tournament in Informatics**
Bronze Medal
- 2015 **Balkan Olympiad in Informatics**
Bronze Medal
- 2014 **Junior Balkan Olympiad in Informatics**
Gold Medal
- 2014 **International Conference on Computer Systems and Technologies**
Crystal Prize for Best Paper
- 2018 **National Olympiad in Linguistics**
Silver Medal
- 2018 **Spring Competition in Informatics**
Gold Medal
- 2018 **National Olympiad in Physics**
Laureate
- 2018 **National Olympiad in Informatics**
Gold Medal
- 2017 **Autumn Competition in Physics**
Silver Medal
- 2017 **Young Physicists' Tournament**
First Place, with team Perun

SOFTWARE SKILLS

LANGUAGES C++, C#, Python, Haskell, JavaScript, Scala

LIBRARIES OpenGL, GLFW, PyAudio

PLATFORMS Windows, Linux

OTHER L^AT_EX, Microsoft Office

LANGUAGE SKILLS

BULGARIAN Native

ENGLISH Fluent, IELTS Academic with 8/9

ESPERANTO Basic

GERMAN Basic