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

Kigarai

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 preprogrammed 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

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	LaTeX, Microsoft Office

LANGUAGE SKILLS

BULGARIAN	Native
ENGLISH	Fluent, IELTS Academic with 8/9
ESPERANTO	Basic
GERMAN	Basic