Emil Emilov Indzhev
Curriculum vitae

EDUCATION

2018 – PRES.	**St Catherine's College, University of Oxford, UK** *BSc & MSc Computer Science* *First Year*
2013 – 2018	**Baba Tonka Upper Secondary Mathematical School, Bulgaria** *Secondary Education* *Final grade: 5.91/6*

WORK EXPERIENCE

SEPTEMBER 2018 – FEBRUARY 2018

Musala Soft
Software Developer
Developing algorithmic problems for and generally managing of 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 pre-programmed in the simulation.

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

SOFTWARE SKILLS

LANGUAGES	C++, C#, Python, Haskell, JavaScript, Scala
LIBRARIES	OpenGL, GLFW, PyAudio
PLATFORMS	Windows, Linux
OTHER	LaTeX, Microsoft Office

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Term-time: St Catherine's College, Manor Rd, Oxford, OX1 3UJ, United Kingdom

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ACHIEVEMENTS AND AWARDS

International competitions

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*

Notable national competitions

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*

LANGUAGE SKILLS

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