

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

Kigara

A machine learning library for C++ built from scratch. Supports different types of layers such as convolutions and fully connected ones. Still 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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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