Aleksandar Krastev

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Education

Massachusetts Institute of Technology   Expected Jun 2023
- Pursuing a B.S. in Computer Science and Engineering
- Past classes: Algorithm for Graphs and Matrices, Computational Structures, Introduction to Machine Learning, Probability and Random Variables
- Current classes: Software Construction, Theory of Computation

Skills

Software: C++, Python, Java, JavaScript, Linux, LaTeX, Git, HTML
Languages: English, Bulgarian, beginner in German

Experience

QuantCo / Software Engineering Intern   Jun 2020 - Aug 2020
- Developed a Python wrapper for R Generalized Random Forests using rpy2

MIT CSAIL / Undergraduate Researcher   Feb 2020 - Aug 2020
- Researched applications for a hardware stream merger
- Implemented and evaluated two applications by running hardware simulations

Bulgarian Informatics / Instructor & Problem Author   Aug 2017 - Present
- Developed two tasks for contests with 75+ participants from up to 7 countries
- Prepared and presented three lectures on topics in data structures and algorithms in front of the top 20 Bulgarian high school students

Awards

Gold Medals:
- International Olympiad in Informatics, Tsukuba, Japan   Sep 2018
- Balkan Olympiad in Informatics, Timişoara, Romania   Jul 2018
- Romanian Masters of Informatics, Bucharest, Romania   Oct 2018

Silver Medals:
- International Olympiad in Informatics, Baku, Azerbaijan   Jul 2019
- European Physics Olympiad, Riga, Latvia   Jun 2019
- International Olympiad in Informatics, Kazan, Russia   Aug 2016

Other Projects

Nitwit: A C++ compiler for a made-up programming language
Gemini: A co-op puzzle platformer implemented in JavaScript
Stealth: A top-down 2D game implemented in JavaScript
Judge System: A Python/Django website for testing of solutions to algorithmic tasks