

# Aleksandar Krastev

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• <https://alexalex.xyz>

• <https://github.com/Alaxe>

## Education

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### Massachusetts Institute of Technology

EXPECTED JUN 2023

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

## Skills

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**Software:** C++, Python, JavaScript, Linux, LaTeX, Git, HTML

**Languages:** English, Bulgarian, beginner in German

## Experience

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### QuantCo / Software Engineering Intern

JUN 2020 - AUG 2020

- Developed a Python wrapper for R GRF using rpy2

### MIT CSAIL / Undergraduate Researcher

FEB 2020 - AUG 2020

- Researched applications for a hardware stream merger
- Implemented and evaluated two merger 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 data structures and algorithms topics in front of 20 high school students

## Awards

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### Gold Medals:

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| • International Olympiad in Informatics, Tsukuba, Japan | SEP 2018 |
| • Balkan Olympiad in Informatics, Timișoara, Romania    | JUL 2018 |
| • Romanian Masters of Informatics, Bucharest, Romania   | OCT 2018 |

### Silver Medals:

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|---|----------|
| • 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

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**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