

Krish Nath

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School Education

- John D. O'Bryant School of Mathematics and Science, Boston, MA (currently in Grade 8)
 - AP Calculus AB: Ongoing
 - AP Statistics: Ongoing
 - AP Computer Science Principles: 5/5
 - AP Computer Science A: 4/5
 - Grade 11 Mathematics, Pre-calculus Honors: A+
 - Grade 10 Mathematics, Algebra II Honors: 89.49%
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College Level Courses (online)

- **Introduction to Computer Science (CS50)** from **Harvard College/edX/Prof David J. Malan** (2021 -2022)
I have learnt about C, Memory, Pointers, Linked Lists, Hash Tables & SQL, HTML, CSS, JavaScript, Flask
 - **Algorithms: Design and Analysis, Part 1 (CSX0003)** from **StanfordOnline/edX/Prof Tim Roughgarden** (2021)
I learnt about multiple algorithms: Karger's min-cut, Dijkstra's shortest path & Kosaraju's directed graph algorithms
 - **Introduction to Computational Thinking and Data Science (6.00.2x)** from **MITx/edX/Prof John Guttag** (2020)
I learnt about Graphs, Stochastic programming, Statistical thinking & Monte Carlo simulations
 - **Introduction to Computer Science and Programming Using Python (6.00.1x)** from **MITx/edX/Prof. Eric Grimson** (2020)
I learnt about Lists, Dictionaries & Algorithmic Complexity
 - **Getting Started with Python (Py4e101x)** from **MichiganX/edX/Prof. Charles Severance** (2020)
I learnt about basics of Python language: Variables, Functions & Loops
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Research

- Building a new programming language, under guidance of Prof Lance Galletti, Boston University (2022)
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Other Education

- Russian School of Mathematics, Grade 10 Honors
 - Shishu Bharti, School of Languages and Culture of India, Grade 8
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Competitions and Awards

- **Massachusetts Science and Engineering Fair**
I got an Honorable Mention award at the state-level middle school competition. My project used Machine Learning to recognize Boston buildings using their images.
 - **USACO (<http://www.usaco.org/>)**
USA Computing Olympiad runs a series of contests every year where a student solves programming problems in any computer language. I used Python. My rank is silver for the year 2021.
 - **Codeforces (<https://codeforces.com/>)**
Codeforces is a programming contests platform where people from all over the world participate in online contests to solve problems in a computer language of their choice. I have participated in more than 45 contests so far, and my rating is currently 956.
 - **Math Kangaroo**
I got 13th place in Nationals for the year 2021, 19th place in Nationals for the year 2022, and 30th place in Nationals for the year 2023.
 - **Russian School of Mathematics**
 - Silver pin in Math Olympiad for year 2020
 - Gold pin in Mathematics Olympiad for year 2019
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Special Skills

- Python, Java, C, Spyder, Jupyter Notebook
- Google suite - Google slides, Google docs, Google sheet, Google Colab