

# Lucas Chen

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## EDUCATION

### Rice University

Houston, TX

*Bachelor of Science in Computer Science, Bachelor of Arts in Mathematics*

*Expected May 2025*

- GPA: 4.0/4.0, President's Honor Roll

### Relevant Completed Coursework:

Fundamentals of Computer Engineering, Computational Thinking, Probability and Statistics, Reasoning about Algorithm, Introduction to Program Design, Matrix Analysis for Data Science, Algorithmic Thinking, Honors Calculus, Honors Linear Algebra, Introduction to Computer Systems, Fundamentals of Parallel Programming, Complex Analysis, Intro to Math Cryptography

### Relevant Ongoing Coursework:

Probabilistic Algorithms and Data Structures, Introduction to Analysis, Concurrent Program Design

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C, C#, Matlab, JavaScript

## EXPERIENCE

### Undergraduate Research Assistant

2023

*Rice University D2K Lab*

- Assisting graduate researchers at the Rice D2K lab with a project that involves time series prediction and anomaly detection.

### Computer Science Teaching Assistant

2023

*Rice University*

- Grading exams and assignments and holding office hours for the course COMP 382: Reasoning about Algorithms

### Rice Datathon

2022

*Rice University's Annual Data Science Competition*

- Developed a Python program using NumPy and Pandas that would produce potential redistricting of the Houston area based on census data; awarded Best Houston/TX Trends and First Place in the respective Track

### Mathematics Teaching Assistant

2022

*AwesomeMath Summer Program*

- Collaborated with an instructor to teach high-level competition mathematics virtually to high school students

## PROJECTS

### Gameboy Emulator

- Implemented a SM83 processor emulator to create an emulator for the DMG-01 Nintendo Gameboy in C

## COMMUNITY & LEADERSHIP

### Volunteer Instructor

2017 - 2021

*A-Sharp Learning Center*

- Taught math and computer science courses to elementary and middle school students, both in person (pre-covid) and online (post-covid)

## HONORS

### Computing Olympiad

2019 - 2021

*USA Computing Olympiad Gold Division*

### Mathematical Olympiad

2019 - 2021

*USA Mathematical Olympiad (USAMO) three-time Qualifier, top 250; AIME Score 13, USAMO Score 21*

### Physics Olympiad

2018 - 2021

*USA Physics Olympiad (USAPhO) three-time Qualifier, top 400*