Lucas Chen

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EDUCATION

Rice University <div align="right">Houston, TX</div>

Bachelor of Science in Computer Science, Bachelor of Arts in Mathematics <div align="right">*Expected May 2025*</div>

- 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, Into 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 <div align="right">2023</div>

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 <div align="right">2023</div>

Rice University

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

Rice Datathon <div align="right">2022</div>

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 <div align="right">2022</div>

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 <div align="right">2017 - 2021</div>

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 <div align="right">2019 - 2021</div>

USA Computing Olympiad Gold Division

Mathematical Olympiad <div align="right">2019 - 2021</div>

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

Physics Olympiad <div align="right">2018 - 2021</div>

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