Stanley Jiang

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Education

Cornell University August 2021 – May 2024 (Expected)
- Computer Science Major, 3.979/4.00 GPA
- Courses: Object-Oriented Design and Data Structures - Honors (FA21), Data Structures and Functional Programming (SP22), Discrete Structures (SP22)

Ridge High School September 2017 – June 2021
- 4.86/4.00 GPA, SAT: 1590

Experience

Alphademic Learning, Teacher and Marketing Team Member May 2020 – September 2020
- Taught the basics of Java to over 20 students following a self-created rigorous 12-week lesson plan.
- Helped raise donations to support medical workers with supplies during the COVID pandemic.

Gauss STEM Camp, Teacher July 2019 – August 2019
- Worked as a camp counselor and teacher for a 3-week summer program.
- Helped students grasp introductory coding concepts.

Projects

Simulating Evolving Artificial Life
- Created a simulation of a simple world of critters that interact with each other and the surrounding terrain and evolve through mutations to the code responsible for their behavior.
- Built a graphical front end using JavaFX.
- Implemented a fully functional programming language by creating a parser and interpreter with Java.
- Used Dijkstra's algorithm to give critters the ability to search for food.

Text Editor
- Implemented autocomplete, spell checking, and search functions in a text editor.
- Achieved through the creation and use of hash tables, tries (prefix trees), and bloom filters.
- Averaged 0.08 ms per word spell check against a 118,000 word dictionary.

RSA Encryption
- Created a system that encrypted messages through RSA using randomly generated public and private keys and decrypted messages given public and private keys.

Activities

Cornell Science Olympiad, Chemistry Lab Event Supervisor September 2021 – Present
- Wrote test questions for the Chemistry Lab Event for Cornell's 2022 Science Olympiad Satellite Invitational.
- Helped quality control the Detector Building Event test.

Math Talk on Bézier Curves, stanleyjiang25.github.io/BezierCurves.pdf May 2021 – August 2021
- Explored the mathematical modeling capabilities of Bézier curves on polynomial functions.
- Proved the existence of an exact representation of any interval of any polynomial curve through a recursive construction of control points of a Bézier curve.

Programming Languages and Frameworks: Java, C++, HTML/CSS, LaTeX, JavaFX
Languages: English (native speaker), Mandarin Chinese (fluent), Spanish (working proficiency)
Affiliations: Cornell Undergraduate Math Club, Mu Alpha Theta, Lehigh Valley Math Team, Ross Mathematics Program, Awesome Math Summer Program
Awards: National Merit Scholarship Finalist and National Merit Bristol-Myers Squibb Co. Scholarship Recipient, Mu Alpha Theta High School Scholarship Recipient, 6x AIME Qualifier, 2x Princeton University Mathematics Competition Individual Finalist, Harvard-MIT Math Tournament 3rd place team
Interests: Tetris, piano, drawing, clarinet, and overused jokes