Stanley Jiang

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Education

Cornell University August 2021 – May 2024 (Expected)
- Computer Science Major, 4.135/4.00 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.

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.

The Whether Bee – Instant Messaging Web Application, github.com.stanleyjiang25/Webchat
- Created a fully-functioning instant-messaging web application with chat bots for users to talk to
- Used OCaml (including Opium and Caqti third-party libraries) to create endpoints on our back-end system and support other back-end functionality
- Efficiently store and query user data in a database with PostgreSQL
- Built a graphical front end in a web browser using Javascript and VueJS

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++, OCaml, HTML/CSS, Javascript, PostgreSQL, VueJS, 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