

ALAN TAPPER

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EDUCATION

Rice University, Houston, TX

Expected Graduation: May 2024

Bachelor of Science, Mathematics; Bachelor of Arts, Computer Science

Relevant Coursework: Linear Algebra, Partial Differential Equations, Complex Analysis, Honors Real Analysis I, Real Analysis II, Geometric Topology, Differential Geometry, Probability and Statistics, Fundamentals of Computer Engineering, Computational Thinking, Algorithmic Thinking

TECHNICAL SKILLS

Programming: Python, Java, C, JavaScript, HTML, CSS, R, SQL, Markdown, GitHub, JupyterLab, Flask, Node.js

Mathematical: proofs, mathematical logic, data analysis, statistical analysis

COMPETITIONS AND PROJECTS

Rice-Deloitte Case Competition, 2nd Place Team

February 2022

- Collaborated with a small team on a case involving business strategy and analytics

Rice Datathon 2022, Contestant, 2nd Place for a Freshman/Sophomore Team

January 2022

- Developed model to predict social network connections using Github, Python, JavaScript, HTML, and Markdown
- Used the random forest method for regression on training data

William Lowell Putnam Mathematical Competition 2021

December 2021

- Ranked in the top 12% in the most prestigious university-level mathematics competition

Rice University Artificial Intelligence Book Club, Founding Member

October 2020-October 2021

- Conducted research and facilitated discussions in artificial intelligence and machine learning
- Programmed *Tactic: An Ultimate Tic-Tac-Toe Player* using Github, Python, JavaScript, HTML, and CSS
- Implemented and modified AI techniques to play Ultimate Tic-Tac-Toe with a 70-80% win rate against humans
- Gathered external reviewers' feedback on user interface and program effectiveness

WORK AND LEADERSHIP EXPERIENCE

Rice University

Website Manager, Hanszen College

March 2021-present

- Manage the website of a residential college of Rice University
- Work in HTML to keep the site updated, visually appealing, and interesting

Chief Justice, Hanszen College

March 2022-present

- Lead the judicial committee
- Resolve disputes and educate on expectations of the university for 400+ students
- Manage the safe and equitable execution of events, student government elections, and housing assignment process

Orientation Week Advisor

August 2021

- Facilitated the transition to college for 10 students
- Served as a contact tracer during a surge of COVID cases

Alan Tapper Tutoring, Private Tutor

May 2018-present

- Tutor high school and college students in mathematics, chemistry, physics, and Latin
- Built strong reputation for flexing to students learning needs and styles