Axel Adjei

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Education

Massachusetts Institute of Technology (MIT) **Cambridge, MA**

- Candidate for Bachelors of Science in Mathematics and Computer Science September 2021-present
- Candidate for MEng in Computer Science
- Courses: Elements of Software Construction, Discrete Math, Linear Algebra, Differential Equations, Real Analysis, Design and Analysis of Algorithms, Abstract Algebra, Probability and Random Variables, Data Structures, Low-level Programming in C and Assembly, Microeconomics, Macroeconomics, Machine Learning, Theory of Computation, Functional Analysis, Statistics, Computer Systems Engineering, Advanced Complexity Theory
- GPA: 5.0

Savannah Country Day School **Savannah, GA**

- Relevant Courses: AP Calculus BC, Multivariable Calculus August 2017-May 2021
- Awards: Cum Laude, National Honor Society
- Activities: Jazz Band, Tutoring, Math Team (2017–2021), Shot Put (2017-2021)
- SAT: 1580

Work Experiences

MIT **Cambridge, MA**

Researcher June 2024-September 2024

- Worked with Professor Elchanan Mossel to determine the asymptotic expected runtime of variants of the card game of war as the size of the deck increases
- Jointly published paper called **"**On the expected absorption time of sticky random walks and multiple player war games"
- **https://arxiv.org/abs/2409.05201**

Citadel | Citadel Securities **New York, NY**

Launch Intern June 2023-August 2023

- Shared Tech Team
- Skills Used: SQL, Python, Bash

MIT **Cambridge, MA**

6.100 Lab Assistant February 2022-May 2022

- Lab Assistant for MIT course 6.100A (Introduction to Computer Science Programming in Python)
- Led office hours to help students better understand course material
- Helped create problem sets to teach students programming principles and concepts

MIT Zhao Lab **Cambridge, MA**

Developer August 2022-December 2022

- Used Unity to create a user interface to help surgeons control surgical robots

MIT Scheller Teacher Education Program **Cambridge, MA**

Researcher June 2022-August 2022

- Tested beta version of StarLogo Nova to identify bugs for primary launch of new version
- Helped facilitate workshops where high school teachers from around the world came to learn how to use StarLogo Nova
- Developed StarLogo Nova tutorials and created instructional material for workshops
- Reviewed potential platforms for wiki and populated wiki with informative resources

Skills

Proficiency: Python, JavaScript, TypeScript, LaTeX
Familiarity: C, C++, C#, HTML, CSS, Unity