DANIEL STEWART

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EDUCATION

Massachusetts Institute of Technology

Cambridge, MA | Graduation: May 2023

- Bachelors of Science in Mathematics, and in Computer Science Engineering, GPA: 4.9/5.0
- Relevant Courses: Quantitative Methods in Natural Language Processing, Discrete Probability and Stochastic Processes, Stochastic Processes, Theory of Computation, Probabilistic Method in Combinatorics

Iowa City West High School

Iowa City, IA | Graduation: June 2019

Relevant Courses: Data Structures. Multivariable Calculus

EXPERIENCE

Amazon Software Developer Intern

Cambridge, MA; Seattle, WA | June 2022, 2023 - September 2022, 2023

- Developed a machine learning model to predict defective customer interactions
- Coded in Python and used UNIX commands to train the model and analyze experiment results
- Coded in Java to work towards deployment of the model for customer use

Algorithms Teaching Assistant

Cambridge, MA | February 2023 - May 2023

- Led recitation section solving example problems and answering student questions for the Design and Analysis of Algorithms (6.1220) class at MIT
- Graded exams and put together class notes based on lecture content
- Test solved and contributed to making guizzes for the class

Machine Learning Research Assistant

Cambridge, MA | February 2023 - May 2023

- Worked on creating additional applications for datamodels
- Ran experiments to verify the validity of the approach
- Read papers on state of the art machine learning privacy methods

Political Science Research Assistant

Cambridge, MA | June 2021 - September 2021

- Formatted large data sets from 2020 elections, and others, using the pandas module in Python
- Used Python packages such as BISG and segregation to calculate relevant statistics
- Proposed and explored a research question relating to implementation of elections

Linear Algebra Grader

Cambridge, MA | Sept 2020 - December 2020

Graded proofs from roughly 30 undergraduate students for the upper level linear algebra (18.700) class at MIT

UROP Algebraic Number Theory Research

Cambridge, MA | June 2020 - August 2020

- Learned a large volume of number theory, including the proof of Finiteness of the Class Group, Discrete Valuation Rings, and others

 Worked on strengthening a bound on the asymptotic number of isogeny classes of elliptic curves over a finite field p

LEADERSHIP AND ACTIVITIES

Math Club Team Captain

Iowa City, IA | Aug 2016 – Jun 2019

- Gave instructional lectures to math club and collected problems making weekly problem sheets Organized lessons for the second year of the Iowa City Math Circle, on various competition math topics

USA/Canada Mathcamp

Mines, CO | Jun 2018 - July 2018

Chosen to attend intense, selective math camp which taught classes on a broad range of difficulties, including typically graduate topics, such as Lebesgue Integration, Class Numbers, and Galois Theory

Emerson & Music

Iowa City, IA; Cambridge | May 2019 - Current

- Earned Emerson Scholarship at MIT for \$1,000 to play piano and take lessons
 Participated in Iowa competitions, earning first prize in some, performed for school fundraisers which raised over \$2,000 dollars for the local Music Auxiliary

AWARDS AND HONORS

USA Math Talent Search 2 Time Bronze Winner (2016-2017), Top 10 State Math Competition Placement (2019), State IMTA Piano Competition Winner (2018), AMC Honor Roll (2019)

SKILLS, INTERESTS, INVOLVEMENT

Programming: Python (pandas, pytorch, sklearn), Java, TypeScript, SQL