

KIMBERLY DING

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EDUCATION

Princeton University

Expected June 2021

Bachelor of Science in Engineering in Computer Science

GPA: 3.97

Relevant coursework: Algorithms and Data Structures, Functional Programming, Reasoning about Computation, Probability and Stochastic Systems, Numerical Methods, Economics and Computing, Theoretical Machine Learning

SKILLS

Programming: Python, C++, C, Java, OCaml, R, MATLAB, HTML, CSS, JavaScript, LaTeX

Software: Microsoft Office, Google Docs/Sheets/Slides

EXPERIENCE

Princeton University Department of Computer Science, Lab Teaching Assistant

Feb. 2019

- Assist students in proof-based homework problems for a computational theory course

Virtu Financial, Wintern

Jan. 2019

- Used lasso regression to build a model that profited by a large margin in a simulated environment

Princeton University Department of Mathematics, Undergraduate Course Assistant

Sept. 2018 – Jan. 2019

- Graded weekly homework assignments for a linear algebra course

BAM.money, Software & Web Developer

June 2018 – Oct. 2018

- Wrote scripts to recognize and process financial data
- Developed company's web application, improving user interface and integrating scripts

Princeton University Department of Computer Science, Research Assistant

June 2018 – Aug. 2018

- Developed and implemented machine learning algorithms in Python
- Tested algorithms on real and simulated datasets and analyzed performance

Art of Problem Solving, Grader

Apr. 2017 – Mar. 2018

- Provided detailed, step-by-step feedback on homework problems and proofs.

West Windsor Public Library Kids' Chess Club, Instructor

Aug. 2014 – Aug. 2016

- Provided instruction to beginning- and intermediate-level chess players

ACTIVITIES

Effective Altruism Investments, Quantitative Strategist

Oct. 2018 – Present

- Analyze data to optimize potential investment opportunities
- Write Python programs to process data and select stocks from a universe

HackPrinceton, Organizer

Sept. 2018 – Present

- Coordinate hackathon attended by hundreds of students
- Collaborate with team members to order food and assemble resources for hackers

Princeton University Career Services, Peer Career Adviser

Jan. 2018 – Present

- Guide students on their career paths by providing advice and reviewing documents
- Organize and advertise career-related events

Princeton University Mathematics Club, Treasurer

Feb. 2018 – Feb. 2019

- Monitored club funds, created reports, and approved financial transactions
- Communicated with university administration and vendors regarding club financial decisions

PROJECTS

String Categorization

Nov. 2018 – Dec. 2018

- Collaborated with a team to build a model that categorized textual data
- Wrote Python scripts to clean, preprocess, and analyze strings using machine learning

Memory.py

Sept. 2018

- Coded a Unix-executable memory game in Python

Ayybot

Sept. 2018

- Coded a Discord bot for a private channel
- Wrote JavaScript functions that enabled the bot to send compliments and more

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Mar. 2018

- Used HTML, CSS, JavaScript, and Heroku to design and publish a personal website

Rutgers Robohand

July 2016

- Developed a 3D-printable prosthetic hand, modeling each component in SOLIDWORKS
- Collaborated on a research paper and presented project at research symposium

AWARDS

Princeton University's **Shapiro Prize for Academic Excellence**

Honorable Mention at the Math Prize for Girls; **Bronze Medal** at the Math Prize for Girls Olympiad

4-time **American Invitational Mathematics Examination (AIME) qualifier**

Woman FIDE Master, title awarded by the World Chess Federation

National Merit Finalist