

Reed Zhang

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EDUCATION

U. OF WASHINGTON

M.S. STATISTICS

Sept. 2019 - March 2021 | Seattle, WA

CARNEGIE MELLON UNIVERSITY

B.S. STATISTICS AND MACHINE LEARNING

Minor in Mathematics

Aug. 2016 - May 2019 | Pittsburgh, PA

GPA: 3.97/4

Dean's List

COURSEWORK

Intro. Machine Learning †	10-701
Methods of Optimization †	21-690
Statistical Finance	36-466
Natural Language Processing	11-411
Deep Reinforcement Learning	10-403
Adv. Methods in Data Analysis	36-402
Real Analysis II	21-356
Statistical Computing	36-350
Theoretical CS	15-251
Intro. Computer Systems	15-213
† = graduate level	

THOMAS JEFFERSON HS FOR SCIENCE AND TECH

Grad. June 2016 | Alexandria, VA

Weighted GPA: 4.49/4.0

Math Team

EconChallenge

National AP Scholar with Distinction

SKILLS

PROGRAMMING

Proficient:

Python • R • C

Familiar:

Java • HTML/CSS/Javascript • SQL

OTHER

Linux • Git

EXPERIENCE

RESEARCH ASSISTANT | CMU MACHINE LEARNING DEPARTMENT

Jan. 2018 - Feb. 2019 | Pittsburgh, PA

- Implemented and tested novel ML algorithm for active learning in Python.
- Applied research to nuclear fusion problem in collaboration with Princeton Plasma Physics Lab.

QUESTION.AI | MACHINE LEARNING ENGINEERING INTERN

May 2017 - Aug 2017 | San Francisco, CA

- Wrote script to crawl and scrape websites.
- Trained machine learning models (Tensorflow, Fasttext) on AWS server.
- Improved emotion-detection algorithm accuracy from 50 to 61 percent.

MATHNASIUM OF GAINESVILLE | INSTRUCTOR

Dec 2015 - Aug 2016 | Gainesville, VA

- Collaborated with other instructors to teach math to K-12 students.
- Held weekly lessons with groups of roughly 10 students.
- Attended meetings with other instructors and center director.

PROJECTS

INGREDIENT ASSOCIATOR July 2019

- Implemented algorithm in Python to suggest groups of associated food ingredients.
- Learned 986 groupings from dataset of 20,000 recipes and 400 ingredients.

FROST (WEB PAGE) | HACKCMU

Sept 2016 | Pittsburgh, PA

- Worked in team of four to create financial transparency website.
- Used JavaScript and D3 library to create aesthetic visualizations.
- Won the Best DataHack award at HackCMU 2016.

TWO NEW STATISTICAL POTENTIALS FOR PROTEIN STRUCTURE MODEL QUALITY ASSESSMENT

June 2015 - Aug 2015 | Gainesville, VA

- Analyzed protein structure data in R.
- Developed statistical model that distinguished between genuine structures and computer-generated structures with 94.6% accuracy.
- Presented project at research symposium.

AWARDS

2017	Tartan Data Science Cup, CMU Top 8/40
2016	Best DataHack at HackCMU, presented by Yahoo!
2016	Tartan Data Science Cup, CMU Top 10/70
2014-16	American Invitational Mathematics Examination invitee (x3)
2015-16	Rho Psi Science and Technology Research Scholarship (x2)
2015	America Regions Mathematics League B Division Team 3 rd /48