RYLIE FOSTER

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I am a recent graduate of Reed College with a B.A. in Mathematics and Computer Science. I am interested in data science and programming, and I am especially familiar with Neural Nets and statistical modeling, and with applications of linear algebra techniques to data modeling.

EXPERIENCE

SEPTEMBER 2021 – DECEMBER 2021
STUDENT TEACHING CONSULTANT, REED COLLEGE
Observed a professor's classes two to three times per week. Had weekly meetings to discuss strategies for reaching classroom goals.

JUNE 2019 – AUGUST 2019
SUPERVISOR, NAPA STEM ACADEMY
Worked to create engaging scientific demonstrations and activities for Napa's K-8 students.

EDUCATION

MAY 2022
B.A. MATHEMATICS AND COMPUTER SCIENCE, REED COLLEGE
Took classes in math, computer science, physics, and humanities with extensive writing focus. In addition to data structures, Python and C++ programming, and computer systems, studied statistics and statistical modeling.

SKILLS

- Python Programming
- C++ Programming
- Technical Writing
- Code Documentation
- PyTorch
- Convolutional Neural Networks
- RStudio Data Analysis
- Numpy

MY WORK

"An Introduction to Data-Driven Modal Analysis"
This is a 73-page thesis on techniques in matrix analysis and equation-free data modeling. Implemented a Convolutional Neural Net in PyTorch with multithreaded k-fold validation. It is available here:
https://github.com/ryliefoster/thesis