



# LOGAN REED

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## EXPERIENCE

### Biosciences Research Lab

*Research Assistant*

Camden, NJ

Jan 2022 - Current

- Designed and led the development of a complex data pipeline, providing critical data to the project.
- Migrated Matlab codebase to Python, emphasizing clear documentation and cutting runtime by 85%.
- Wrote user-friendly visualization code and added CI/CD elements to assist non-technical researchers.

### Independent Contractor

*Software Engineer*

Philadelphia, PA

2021 - 2022

- Collaborated with a group of pure mathematicians to discover new prime numbers.
- Implemented previous research in python/C++ emphasizing parallelization.
- Deployed code to a distributed cloud computing system
- Gave talks to non-programmers about the code, how to use it, and its results.

### Rutgers University

*Part-Time Lecturer*

Camden, NJ

2021 - Current

- Successfully taught four semesters of College Algebra and Pre-Calculus courses, each class containing 35 students.
- Produced materials emphasizing understanding, and led more than 95% of my students to pass.
- Maintain very high student evaluations.

## EDUCATION

### Rutgers University

M.S. Mathematical Sciences *GPA: 3.96*

Camden, NJ

2021 - 2023

### Texas State University

B.S. Applied Mathematics *GPA: 3.74*

San Marcos, TX

2017 - 2021

## SKILLS

**Languages:** Python, javascript, C/C++, SQL, Bash

**Technology:** Git, Linux, Docker, AWS, Agile

## PROJECTS

### Personal Server *CI/CD, Linux, Docker, Python, Bash*

A handbuilt server that uses docker-compose to host multiple applications, served through a personal URL via reverse proxies. The server automatically updates and creates backups, and utilizes Grafana for alerts and analytics. It Contains a password manager, media and music streaming, cloud storage, and VPN.

### Master's Thesis *C/C++, Python, Linux, SQL*

An app generating novel data about PDEs, utilizing parallel distributed cloud computing. Built a robust DevOps pipeline, and used CUDA to cut runtimes by 67%

### Real-Time Data Visualization *Python, REST, AWS*

A Python app which displays real-time visualizations for tech stocks. It obtains its data from a free stock API, and is deployed through AWS S3 and AWS EC2. A simple cron job keeps the visualizations up to date.

## ACHIEVEMENTS

**Outstanding Scholarship Award** *Rutgers University*

May 2022

**Four-Time Dean List Recipient** *Texas State University*

2017 - 2021

**Distinguished Thesis Award** *Rutgers University*

May 2023

**National Champion in Kata and Sparring** *UMAHoF*

2016