Logan Reed

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logan-o-reed LoganOReed

Experience

Biosciences Research Lab Camden, NJ
Research Assistant 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 Philadelphia, PA
Software Engineer 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 Camden, NJ
Part-Time Lecturer 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 Camden, NJ
M.S. Mathematical Sciences *GPA: 3.96* 2021 - 2023

Texas State University San Marcos, TX
B.S. Applied Mathematics *GPA: 3.74* 2017 - 2021

Skills

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

Technology: Git, Linux, Windows, Docker

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. It Contains a password manager, media and music streaming, cloud storage, and VPN.

Master's Thesis *C/C++, Python, Linux*
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%

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