Franklin Pezzuti Dyer

Undergrad, University of New Mexico Computer science and mathematics Graduating Spring 2024

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Skills

Programming languages

C / C++

Java

Python

MATLAB

Javascript

Haskell

Scheme

Agda

SQL

HTML/CSS

Tools

Git

SQLite

Wireshark/libpcap

FLEX/YACC

GCODE

LaTeX

Spoken languages

English (native)

Spanish (C1 DELE)

German (UChicago proficiency cert)
Arabic

Interests

Type-theoretic proof checkers Security and software verification Backend web development Quantum computing

Research

Technical specialist on SEQUANA project

July 2023 - present

- Learning about tools for analysis of network packet capture files and intrusion detection (libpcap, Snort)
- Analyzing CSE-CIC-IDS2018 and other datasets

ASSURE research fellowship recipient

January 2022 - May 2022

- Researched numerical methods of approximating fluid flow past objects
- Wrote detailed research report and delivered poster presentation of results

Research assistant at Hand and Machine lab

August 2022 - August 2023

- Developed ExtruderTurtle Python library to design and manipulate solids and generate code for 3D printing
- Presented findings at TEI 2022 conference and UNM computational fabrication seminar

Teaching

Grader for Mathematical Foundations of CS

August 2023 - present

TA and grader for Declarative Programming

January 2023 - May 2023

Grader for Numerical Computing

August 2021 - December 2022

- Graded homework, lab assignments and tests
- Automated parts of grading using Scheme and bash
- Conducted recitations elaborating on key concepts
- Held weekly office hours and tutoring sessions
- Compiled supplementary notes to help students understand difficult concepts

PROMYS 2022 Counselor

July 2022 - August 2022

- Met with high-school students daily to discuss number theory and mathematical proof-writing
- Gave detailed feedback on solutions to problem sets
- · Designed mini-courses on special topics