Abie Safdie

Software Engineer

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EDUCATION

Master of Science, Computer Science | June 2025
University of Oregon, Eugene, OR
Concentration in Data Science
GPA: 3.59 | Accelerated Master's Program

Bachelor of Science, Computer Science | June 2024
University of Oregon, Eugene, OR
Concentration in Systems
GPA: 3.92 | Honors: Magna Cum Laude

RELEVANT COURSEWORK

Data Structures & Algorithms, Software Engineering, C/C++, Operating Systems, Modeling & Simulation, Distributed Systems, Grad Data Science, Statistics, Linear Algebra, Calculus, GIS, Web Mapping, Comp. Architecture

TECHNICAL SKILLS

Command-Line Interface, Docker, VMs, System Admin, Git, DBMS, LaTeX, GIS (ArcGIS), MS Office, OOP, Mathematics

ADDITIONAL SKILLS

Communication and collaboration; excellent time-management; responsiveness; problem-solving

LANGUAGES

Python, C, C++, R, Julia, JavaScript, HTML, CSS, SQL, Bash Scripting, Ruby/Ruby on Rails

CERTIFICATIONS

TestOut Linux Pro (Proficient in System Admin)

EXPERIENCE

University of Oregon | Eugene, OR
Graduate Teaching Assistant - Operating Systems | 2024 - 2025
- Taught Operating Systems course in lab environment to 30 students
- Assisted design of the curriculum; created lab assignments; enhanced pre-existing homework assignments
- Conducted scheduled office hours to facilitate individual learning of OS concepts for undergraduates

Graduate Teaching Assistant - Programming in C/C++ | 2025
- Taught C/C++ in lab environment to 90 students; graded homework; graded exams
- Conducted scheduled office hours to facilitate individual learning for undergraduates

Undergraduate Lab Assistant - Operating Systems | 2024
- Mentored 50 undergraduate students to develop, debug, and complete course coding assignments in C
- Designed and presented schematics to improve students visual comprehension of complex OS concepts

PERSONAL PROJECTS

Geospatial Data Analysis and Visualization of California Oceanographic Data (R) | February 2025
- Developed geographic visualizations to illustrate oceanographic trends and insights
- Built predictive models, including linear/logistic regression and KNN to analyze scientific data

Multithreaded L-Store Database (Python) | October 2024
- Designed a high-performance, multithreaded columnar database capable of managing millions of records
- Developed efficient page caching and concurrency control mechanisms for scalable storage operations
- Ensured ACID compliance through strict two-phase locking for concurrency control