

Wesley Weisenberger

Berkeley, CA | 805.270.6573 | wesley@berkeley.edu | github.com/wesleynw

EDUCATION

University of California, Berkeley

Bachelor of Arts in Computer Science, Minor in Data Science

Expected Graduation: May 2024

GPA: 3.7

Relevant Coursework: Structure and Interpretation of Computer Programs, Data Structures, Machine Structures, Discrete Math and Probability Theory, Designing Information Devices and Systems I&II, Database Systems, Computer Security, Foundations of Data Science, Principles and Techniques of Data Science, Human Contexts and Ethics of Data, Advanced Linux System Administration

EXPERIENCE

Undergraduate Research Apprentice Program

Fall 2022 – Present

Data Science Student Researcher

- Researching under Professor Johnathan Marshall in the UC Berkeley Legal Studies Department.
- Using text data mining to understand patterns and changes in 18th-19th Century criminal law.
- Constructing RegEx classifiers to impute class on 16,000+ Old Bailey Online corpus criminal cases.

Open Computing Facility

Fall 2020 – Present

- Maintaining campus computing infrastructure such as web hosting, printing, and computer lab.
- Performing system administration of servers and desktops used by hundreds of students each day.
- Teach various classes on Linux techniques and skills.

PROJECTS

RookieDB – Java

Spring 2023

- Database management system capable of parsing complex SQL queries.
- Query optimizer intelligently chooses best query plan and join methods to optimize performance.
- Implemented B+ tree indexing and multigranular concurrency control.

Gitlet – Java

Fall 2021

- Custom version control system modeled with functionality modeled after Git.
- Supports file tracking, branching, merging, and remote repositories.
- Implemented custom data structures to enable constant-time file lookup, hashing to handle "diffs" and to prevent file collisions, and merge conflict handling.

Weather Station – C, HTML, Javascript

Spring 2021

- Designed a custom battery-powered Arduino weather monitoring circuit system which pushed data to a database on a locally hosted Linux web server, accessible to the internet.
- Self-hosted website to display and visualize weather data and give users the ability to pull more recent weather measurements from the device.

SKILLS

Languages: Python, Java, C, Golang, SQL, Assembly, HTML, CSS, Javascript, PHP, Swift

Tools: Git, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Docker, \LaTeX , GDB, Linux Systems & Servers, MongoDB, RegEx, XArray

EXTRACURRICULARS

Eagle Scout

2009 – 2020

- Demonstrated leadership, logistical, and communication expertise by coordinating multiple backpacking trips of up to 14 days and 100 miles.
- Facilitated meetings of 30+ Scouts, organized activities and taught practical and wilderness skills.