Wesley Weisenberger

Berkeley, CA | (805) 270-6573 | wesley@berkeley.edu

EDUCATION

University of California, Berkeley   **Expected Graduation:** May 2024
Bachelor of Arts in Computer Science, Minor in Data Science   **GPA:** 3.7

Relevant Coursework: Structure and Interpretation of Computer Programs, Data Structures, Computer Architecture, Discrete Math and Probability Theory, Efficient Algorithms and Intractable Problems, Artificial Intelligence, Designing Information Devices and Systems I & II, Database Systems, Computer Security, Foundations of Data Science, Principles of Data Science, Data Ethics, Advanced Linux System Administration, Operating Systems (*planned*), Programming Langugages & Compilers (*planned*)

WORK EXPERIENCE

Undergraduate Research Apprentice Program   August 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

End to End Encrypted File Sharing System – Go   Spring 2023

- Designed and developed an API that allows users to upload, append to, delete files.
- API also supports file sharing between users and revocation of file access.
- Custom suite of tests written to ensure that file integrity and confidentiality were maintained even after any malicious action on the server.

Discord Bot – Python   Spring 2022

- Enabled users to query images from an aggregated search engine, then manipulate, rasterize, or edit said images through text commands and macros.
- Self-hosted Docker environment facilitated error-handling and networking between Python container, search engine, and Linux system used for processing images.

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

- Constructed 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 trends. Website also gave users the ability to pull more recent weather measurements from the device.

TECHNICAL SKILLS

Languages: Python, Java, C, Go, Javascript, HTML, CSS, SQL, PHP, Swift, RISC-V Assembly
Tools: Git, Linux, Docker, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, LaTeX, MongoDB, RegEx