Wesley Weisenberger

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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, 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

PROJECTS & RELEVANT EXPERIENCE

Undergraduate Research Apprentice Program Spring 2023 – 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.

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.

Enigma Machine – Java Fall 2021
- Developed an emulator of a WW2 Enigma Machine that could encrypt and decrypt text using cryptographically accurate implementations.
- Object-Oriented design made use of custom data structures representing physical rotors, plugboard, and alphabets of actual machine to enable clean code, programmatic readability, and modularity.

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

LEADERSHIP & 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 activites and taught practical and wilderness skills.