

Amy Li

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Summary

4th year Data Science and Public Health student at UC Berkeley with a strong interest in software development, health, and social impact seeking a full-time software development opportunity.

Education

University of California, Berkeley
Bachelor's in Data Science and Public Health

December 2022

Skills

Programming, data science, project management, public speaking, event planning, science education

Technical tools: Java, C++, Python (Numpy, Pandas, sklearn), Go, R, SQL, Git

Experiences

Software Engineering Intern, Grainite

June 2021-August 2021

- Used C++ to develop a database tool that parses on-disk files, generates statistics, and supports key-value search functionalities.

Undergraduate Researcher, UC Berkeley Colford Group

May 2020-Present

- Used R to analyze data and generate tables on global maternal and child health datasets
- Wrote research papers and analysis plans for the WASH Benefits Trials, a multi-national study on the health effects of water, sanitation and hygiene

Mathematics & Statistics Tutor, UC Berkeley

June 2020-August 2020

- Facilitated study groups and provided one-on-one tutoring for college algebra, precalculus, and introductory statistics courses at the Student Learning Center.
- Collaborated with a virtual teaching team to deliver academic workshops.

Events Intern, World Concern

September 2017-January 2018

- Led a team of 7 to plan a charity banquet that drew over 130 guests and raised \$16,000
- Recruited speakers and volunteers, coordinated event venue and catering, and created invitations

Projects

Gitlet Version Control System

- Built a version control system in Java that can track and commit file changes, revert to previous versions, create and merge branches, and support remote usage.
- Supports Git functionalities: init, add, rm, commit, checkout, log, branch, status, reset, merge, push, fetch, pull

End-to-End Encrypted File-Sharing System

- Designed and implemented a file-sharing system that allows users to store and load files, efficiently append to files, share files with other users, and revoke access from users.
- The file sharing system guarantees confidentiality and integrity even in an untrusted database by incorporating RSA public-key encryption and signatures, AES encryption and HMAC.

Spam Email Classifier

- Created a spam/ham email classifier in Python using feature engineering and logistic regression
- Used sklearn libraries to process text data and fit machine learning models
- Used regularization and cross-validation to achieve 90% accuracy while minimizing overfitting