

Briana Zhang

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EDUCATION

University of California, Berkeley

May 2022

Electrical Engineering and Computer Sciences (3.975/4.00)

Relevant Coursework

Data Structures

Efficient Algorithms and Intractable Problems

Computer Security

Probability and Random Processes

Operating Systems

Optimization Models and Applications

Computer Visions

Introduction to Machine Learning

EXPERIENCE

Incoming Discrete Math and Probability Reader

Fall 2020

Software Engineer Intern at BigFix

Summer 2020

Web Developer for BigFix Compliance (Ruby on Rails, JavaScript/jQuery, HTML, CSS)

» Created widget to send ajax requests for ETL import updates in real time

» Updated UI with navigation bar and download feature for import logs

Discrete Math and Probability Reader & Academic Intern

Summer 2020

» Taught at office hours and four discussions weekly, graded homework

Computer Science Mentors (CSM)

Spring 2020

» Discrete Math and Probability Mentor: Mentored two weekly sections

Software Engineer Intern at Jack Henry & Associates

Summer 2019

Test Automator for Web Services (C#, LINQ, SQL, XML)

» Created 3 major projects from scratch in C#

» Generated hundreds of regression test cases with database validations

Structure and Interpretation of Computer Programs Academic Intern

Spring 2019

» Taught course material during weekly lab sessions and office hours

PROJECTS

End-to-End Encrypted File Sharing System (Golang)

Spring 2020

» Designed and implemented secure user-file system with insecure server

» Used salted hashed passwords, encryption, and digital signatures

File Transmission via Sound (Python)

Fall 2019

» Converted text file to bits transmitted with redundancy for noise resistance

» Decoded with frequencies of highest magnitude detected by FFT

Modified Traveling Salesman Problem Solver (Python)

Fall 2019

» Reduced problem with Floyd Warshall for simulated annealing

» Max of parallel simulated annealings with randomized hyperparameters

Game: [Darkness](#) (Java)

Spring 2019

» Memory maze game with path finding algorithm for hunting enemy

» Pseudo randomly generated world with interactive map and characters

Cal Hacks: RoboGSI (Java)

Fall 2018

» Used Twilio and Firebase to search PDF lecture notes with mobile input

ORGS

Eta Kappa Nu (HKN) National EECS honor society

Spring 2019 - present

» Tutoring Officer: Run review & tutoring sessions for lower division EECS classes

» Computing Services: Developed HKN website features using Django