

Janise Liang

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Education

UC Berkeley | exp. spring 2023 grad

- computer science
- applied math, statistics cluster

Coursework

Current:

Computer Security
Abstract Algebra
Efficient Algorithms
Optimization Models

Completed:

Structure of Computer Programs
Data Structures
Machine Structures
Data Science
Information Devices and Systems
Concepts of Statistics
Introduction to Analysis
Discrete Math & Probability Theory
Linear Algebra
Differential Equations

Skills

Java | C/C++ | Python | RISC-V Assembly |
Data Analysis with R, SAS/JMP, NumPy |
Data Structures | Docker | HTTP | REST API

Experience & Projects

Medical Imaging Applications, LLC | 2021 – present

- Working on migrating research tools and software to Google Cloud Platform to allow for access to products from any device.
- Using Boost.Python, REST API (flask), Docker containers.

GamesCrafters | UC Berkeley | 2020

- Worked with team to implement a perfect player for abstract strategy games such as Tic-Tac-Toe variants and Connect Four.
- Designed optimized hash functions for faster solving.
- Implemented Alquerque, a game similar to checkers.

Advanced Data Analysis | Valley Christian HS | 2018 – 2019

- Worked with group to analyze opioid overdose and homelessness patterns across the US, using R and JMP
- Named “Best Overall High School Team” in American Statistical Association’s [Public Health Data Challenge](#)

Experiences

Teaching Assistant | UC Berkeley CS Kickstart | 2020

- Co-hosted introductory python classes for incoming freshmen.
- Helped handle logistics and communications with participants.

Academic Intern, Discrete Math | UC Berkeley | 2020 – present

- Helped run twice weekly discussion sessions to review lecture material and walk through discussion worksheets.

Activities

Private Tutoring | 2015 – present

- Tutored peers in high school and college-level math and computer science.

Cal Club Tennis | 2019 – present

Volunteer Tutor | Bridge Elementary Program | 2016 – 2019

- After-school tutoring program for low-income students.
- Helped organize academic and recreational activities.