



AIDAN TONG

Berkeley, California | +1 (510) 229-0076 | aidan.tong@berkeley.edu

 [linkedin.com/in/aidantong](https://www.linkedin.com/in/aidantong)

 github.com/aidantong

 aidantong.github.io

EDUCATION

University of California, Berkeley

Berkeley, California

Computer Science, Third Year

May 2022

- **GPA:** 3.80/4.00
- **Coursework:** Data Structures, Computer Security, Computer Architecture, Principles and Techniques of Data Science, Algorithms and Intractable Problems, Discrete Mathematics, Intro. to iOS, Structure and Interpretation of Computer Programs
 - **Completed by summer 2021:** Introduction to Machine Learning, Introduction to Database Systems

WORK EXPERIENCES

Salesforce

San Francisco

Software Engineering Intern

June 2020-August 2020

- Used RSA key-based authorization to automate SSH process for 13+ internal service teams, removing need for passwords and human interaction while authenticating into database machines
- Implemented key-pair rotation scheme to automatically generate/deprecate keys and re-deploy them to hosts
- Built remote-control interface on top of Python's Paramiko library that teams can use to script and automate database operations over a secure channel

UC Berkeley College of Engineering

UC Berkeley

Course Staff

January 2020-present

- Teach weekly small-group sections, hold office hours, and do project grading for Berkeley's CS 61A course

First Code Academy

Hong Kong

Coding Instructor Intern

June 2019-August 2019

- Taught Python, web development, and hardware programming to students aged 9-18 in a classroom setting
- Designed and created projects for First Code Academy's Python x microbit hardware programming course

PROJECTS

Random World Generator (<https://youtu.be/nZbtIg0A0hY>)

- Implemented binary space partitioning to generate tile-based worlds similar to those in popular game Brogue
- Developed game-like features such as character sprites, health bar, objectives, WASD controls, saving/loading

End-to-End Encrypted File Sharing System

- Utilized OOP and security principles to develop Dropbox-like file sharing system
- Allowed modifying, downloading, sharing, and revoking permissions; tested to work under various circumstances
- Technologies: GoLang, RSA

LEADERSHIP ACTIVITIES

UC Berkeley Computer Science Mentors

UC Berkeley

Senior Mentor

September 2019-present

- Lead one small-group content-review section per week and 1-on-1 meetings closer to exams for CS 61A students
- Responsible for group of Junior Mentors and meet weekly to improve their teaching and preparation skills
- Develop worksheets for weekly tutoring sessions

SKILLS AND INTERESTS

- Fluent in English and Cantonese, Business-proficient in Mandarin
- Java (expert), Python (expert), C, Go, JavaScript (React, Express, Node), pandas, numpy, Git, Swift
- Soccer, Rick and Morty, coffee, and reading!