



# AIDAN TONG

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## EDUCATION

### University of California, Berkeley

*Computer Science, Third Year*

**Berkeley, California**

*May 2022*

- **GPA:** 3.75/4.00
- **Coursework:** Structure and Interpretation of Computer Programs, Data Structures, Computer Architecture, Intro. to iOS, Discrete Mathematics, Efficient Algorithms and Intractable Problems, Computer Security
  - **Completed by summer 2021:** Introduction to Machine Learning, Principles and Techniques of Data Science, Introduction to Database Systems, Designing Information Devices and Systems

## WORK EXPERIENCES

### Salesforce

*Software Engineering Intern*

**San Francisco**

*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

*Course Staff*

**UC Berkeley**

*January 2020-present*

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

### First Code Academy

*Coding Instructor Intern*

**Hong Kong**

*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

*Senior Mentor*

**UC Berkeley**

*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!