

# Aaron Teng

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## Education

Computer Science, B.A. | U.C. Berkeley  
GPA: 3.86; expected graduation: Spring '27

August 2023 - Present

## Projects

Cappella Catalogue – <https://cappellacatalogue.com>

[Github](#)

- Online sheet music store for a cappella arrangements. Full-stack web app built in **Django**, **HTML/Bootstrap/JS**, and **PostgreSQL**, with a live **Stripe** integration for payment, deployed on an **AWS EC2 Ubuntu** instance using **Nginx**, Gunicorn, and **Docker**.

Server-Client Network in C

[Github](#)

- Used **C networking libraries** to set up a ‘server’ and ‘client’ connection between different processes running on local device. Server process responds to basic client commands, and forks to handle multiple client connections.

SecureStore

[Github](#)

- Used **cryptography** functions such as block ciphers, RSA key-sharing, and hashing to implement a secure file-sharing system over a simulated insecure, public database. Written in **GO**, with **BDD** test suite in **Gingko/Omega**.
- Implementation scored in top 1.3% of class, for Berkeley’s cybersecurity course (CS161)

## Experience

Research Intern | Berkeley SKY Computing Lab – ADRS

October 2025 – December 2025

- Built Python frameworks using the **GEPA** API that leverage AI models to design, optimize, and evaluate complex algorithms through a continuous design-test-feedback loop

Optician | Simply Vision Optometry

October 2023 – August 2025

- Conducting pre-tests (refraction, stereopsis, etc.) during patient intake, fitting and styling frames and lenses, billing insurance, filing patient records
- 12-15 hours per week throughout the school year and summer

Piano Teacher | Pacific Piano School

July 2022 – July 2023

- Gave private lessons to students enrolled in summer and winter camps to teach music theory and refine their piano technique

## Skills

- Python, Django, Java, C, HTML/CSS/Javascript, RISC assembly, GO/Golang, Ruby, Ruby on Rails, AWS, Linux, Docker, full-stack web development
- Music composition (Piano, strings, choir), Choral and instrumental arranging
- Piano accompaniment

## Coursework

- CS61B - Data Structures and Algorithms
- CS61C - Great Ideas of Computer Architecture
- CS70 - Discrete Mathematics and Probability Theory
- Math 54 - Linear Algebra
- CS170 - Efficient Algorithms and Intractable Problems
- CS161 - Computer Security
- CS169A - Intro to Software Engineering
- CS198 - Intro to Linux, SysAdmin
- CS162 - Operating Systems and System Programming (in progress)
- CS168 - Internet Architecture and Protocols (in progress)