

SHELDEN SHI

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[Portfolio](#) • github.com/sheldenshi • linkedin.com/in/sheldenshi

EDUCATION

University of California, Berkeley

Aug 2019 – May 2023

B.A., Computer Science

GPA: 3.88

B.A., Cognitive Science

Relevant Courses

- CS 61A: *Structure & Interpretation of Computer Programs* (**4 Python projects**), CS 61B: *Data Structures* (**4 Java projects**), CS 61C: *Machine Structures (C, RISC-V)*, CS 70: *Discrete Math and Probability*, EECS 16A: *Designing information Devices and Systems*, Data8: *Foundations of Data Science* (**4 Data Science projects, Python**)
- **Machine Learning** (Coursera, by Andrew Ng): *Learned to implement and apply machine learning algorithms to novel problems.* **AI for Medicine** (DeepLearning.AI): *Learned about the nuances of working with both 2D and 3D medical image data, for multi-class classification and image segmentation.*

WORK EXPERIENCE

Institute for Security and Technology (IST), San Francisco, CA

May 2020 – Nov 2020

ML & Cyber Technology Intern

- Executed a DDoS Education Project that made internet security resources more broadly available to non-English speakers and promoted public awareness of DDoS attacks.
- Trained NLP translation models for 3 languages and implemented a document translator application using Python; the application translated 200+ reports, presentations, and with publishable quality results.
- Collaborated with the publication team to launch an open-source Virtual Library to distribute 400+ Internet Security-related educational resources to the global community.

Berkeley Social Interaction Laboratory, Berkeley, CA

Aug 2020 – Present

Research Assistant

- Designed ML pipeline and visualization tools to analyze data from police body cameras.
- Building an AI system to detect negative emotion from vocalizations recorded by body cameras worn by police and developing a warning system for police officers.

Daily Chinese LLC, Shanghai/Detroit, MI

Summer 2018 - Spring 2019

Founder

- Directed a team of 6 including 2 experienced Mandarin professors from *Shanghai International Studies University* to develop a Chinese learning App.
- Launched the APP within 3 months and received offers of \$120,000 from potential investors.
- Later, sold the app to *Shanghai Yunxuan Information Technology Ltd.* for \$50,000.

PROJECTS & EXTRACURRICULAR ACTIVITIES

Biomedical Literature Visualizer [GitHub](#)

Fall 2020 - Present

- Lead a team of 4 to build an open source tool that helps researchers to analyze large sets (200k+) of papers.
- Applied NLP and graphic algorithms to visualize and discover potential relationships between papers and entities.

Cognitive Science Student Association at Berkeley

Jan 2020 - Present

Event Organizer

- Directed the planning committee for the 12th Annual California Cognitive Science Conference, an annual symposium bringing together 300+ students and researchers.
- Increased yearly organization fund from \$50,000 to \$65,000 through alumni donor development and fundraising events

UC Berkeley CS Tutor

Jan 2020 – May 2020

- Provided in-person instruction to 10 CS61A students with class materials and achieved grade improvement in 100% of students tutored over a five-month period.
- Helped students assemble lesson plans to keep them on track with the class material and mentored them with personal projects to further practice the skills learned from the course.

SOFTWARE SKILLS

- **Proficient:** Python3, Java, Cloud Computing (Azure, Google Cloud), Linux, Git, Data Structure, TensorFlow
- **Familiar:** C, SQL, JavaScript, React, HTML, NodeJS, MATLAB