

SHELDEN SHI

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EDUCATION

University of California, Berkeley

Aug 2019 – May 2023

B.A., Computer Science & B.A., Cognitive Science

GPA: 3.8/4.0

Relevant Courses:

- *Structure & Interpretation of Computer Programs (4 Python projects)*, *Data Structures (4 Java projects)*, *Machine Structures (2 C projects, RISC-V)*, *Discrete Math and Probability*, *Designing information Devices and Systems*, *Foundations of Data Science (4 Data Science projects, Python)*, *Efficient Algorithms and Intractable Problems (Algorithms)*, *Principles & Techniques of Data Science (Data Science, Python)*, *Probability and Random Processes*
- *Machine Learning* (Stanford University), *AI for Medicine*, *TensorFlow for Artificial Intelligence* (DeepLearning.AI)

EXPERIENCE

Thermaquil, Consulting Project Manager / Software Developer

Berkeley, CA | **Feb 2021 – Present**

- Leading a team of 5 undergrads to design and develop an embedded system user interface for physicians and patients to use Thermaquil's implantable nerve block system to block pain.

Berkeley Pharma Tech, Software Engineer Intern

Berkeley, CA | **Jan 2021 – Present**

- Full-stack development using JavaScript and Solidity to launch a cryptocurrency token.

UC Berkeley, Research Assistant

Berkeley, CA | **Aug 2020 – Present**

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

Institute for Security and Technology (IST), Software Engineer Intern

San Francisco, CA | **May 2020 – Nov 2020**

- Incremented company's document processing speed by 400% by automating the process with Python and Java.
- Trained NLP translation models for 3 languages and implemented a document translator using Python.

Daily Chinese LLC, Founder

Shanghai/Detroit, MI | **Summer 2018 - Spring 2019**

- Directed a team of 6 including 2 experienced Mandarin professors from *Shanghai International Studies University* to develop a Chinese learning App.
- Later, sold the app to *Shanghai Yunxuan Information Technology Ltd.* for \$50,000 and is now [the best reviewed Chinese learning app](#) on Apple App Store

HIGHLIGHTED PROJECTS

EEG Device Calibration Tool, Consulting Team Project

Feb 2021 - Present

- Building a calibration tool for Neurable's EEG headsets using JavaScript (React) and signal processing in Python backend.

Medical Resources Search Helper Browser Extension, Team Project, [GitHub](#)

Jan 2021 - Present

- Leading a team of 3 to build a web-app using React frontend and Flask backend to help doctors and patients diagnose

Biomedical Literature Visualizer, Team Project, [GitHub](#)

Aug 2020 - Oct 2020

- Led a team of 4 to build an open-source tool using Python that helps to analyze large sets (200,000+) of research papers.
- Enabled researchers/ doctors/ patients to visualize and discover potential relationships between papers and entities by applying NLP and Graphic algorithms.

Numc, 1-Person Project

Nov 2020 - Dec 2020

- Implemented a Python-C API that speeds up matrix mul by 150X and matrix power by 2500X by utilizing parallelism.

Lines of Action Board Game AI, 1-Person Project

Feb 2020 - Apr 2020

- Ranked 2/1700 in the tournament competing against other classmates' algorithms.
- Built the game in Java and implemented machine player with alpha-beta pruning and minimax algorithm.

LEADERSHIP

Ideas on Consciousness (Student Club), President /Instructor

Aug 2020 - Present

- Designed and instructed a student-taught class at Berkeley on artificial intelligence and consciousness.

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.

SOFTWARE SKILLS

Programming Language: Python3, JavaScript, Java, C, SQL, HTML, CSS, MATLAB

Other: Git, Linux, React, Data Processing and Analysis, Machine Learning, Flask, RESTful API, TensorFlow, Cloud Computing (Azure, Google Cloud)