SHELDEN SHI

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EDUCATION

University of California, Berkeley

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

Aug 2019 – May 2023

GPA: 3.7/4.0

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

Roche Diagnostic, Automation Engineer Intern

Santa Clara, CA | May 2021 - Present

- Implemented standalone automation tools and data pipelines
- Used Python, Pandas and Tkinter library
- Increased consultants' workflow efficiency by 500%

Berkeley Pharma Tech, Software Engineer Intern

Berkeley, CA | Jan 2021 - May 2021

- Implemented and deployed an ERC-20 token (digital currency) on Ethereum Network
- Built a full-stack web app to allow users to interact with the token
- Utilized React.js for the frontend, Node.js for the backend, and Solidity for the smart contract

UC Berkeley, Research Assistant

Berkeley, CA | Aug 2020 - Present

- Designed and implemented data pipelines, and ML models to predict emotions using audio data from police body cams
- Developed CNN models in PyTorch and used Microsoft Azure for training and storage
- Achieved 87% cross-validation accuracy

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

San Francisco, CA | May 2020 - Nov 2020

- Trained NLP translation models for 3 languages and built a standalone APP for document processing and translating
- Used Google AutoML to fine tune Google's NMT models and Java for the standalone application
- Boosted translation accuracy on unseen data by 15-27% and document processing speed by 400%

Daily Chinese LLC, Founder

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

- Directed a team of 6 including 2 Mandarin professors from Shanghai University to develop a Chinese learning App.
- Sold the app to Shanghai Yunxuan Information Technology Ltd., and is now the best reviewed Chinese learning app on Apple App Store

HIGHLIGHTED PROJECTS

EEG Device Calibration Tool, Consulting Team Project

Feb 2021 - May 2021

• Built a calibration tool for Neurable's EEG headsets using JavaScript (React) and backend in Python

Medical Resources Search Helper Browser Extension, Team Project, GitHub

Jan 2021 – Apr 2021

• Led 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 that helps to analyze large sets (200,000 +) of research papers using Python
- 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

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, Solidity, C, SQL, HTML, CSS

Other: Git, Linux, React.js, Pandas, Machine Learning, Flask, RESTful API, TensorFlow, Cloud Computing (Azure, Google Cloud)