Serena Li

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SKILLS

Programming
Python, JavaScript/TypeScript, Java, C++, Scheme, Git, OpenCV, React, Node.js, Django

Other
Leadership, communication, teamwork, project management

WORK EXPERIENCE

Scale AI | Software Engineering Intern, 3D Team *San Francisco | May 2022 – August 2022*

- Implemented parts of annotation tools and services for 3D sensor data (TS/Node.js/React).
- Developed a new LiDAR scene labeling pipeline employing labeler specialization and ML prelabeling to speed up and increase the quality of labelling.
- Worked on customer-facing APIs to streamline 3D scene relabeling requests.

Ambience Healthcare | Software Engineering Intern *San Francisco | June 2021 – August 2021*

- Worked closely with customer operations team and medical consultants.
- Built parts of an event sourcing model for our clinical word ontology (TS/Next.js).
- Created a Slack bot that calculates customer metrics, scrapes physician schedules from our EMR system, schedules product testing, and notifies when an important client interaction occurred with the product. Saved the team 5 hours of manual work per week.

Liphardt Lab, Stanford University | Research Intern *Remote | June 2020 – September 2020*

- Implemented a mobile app to capture and process images of COVID-19 tests (React Native).
- Built a symptom collection web app with secure multiparty computation protocols (Python).
- Trained linear, random forest, SVM and KNN models on over 3 million patient data to classify reported symptoms as COVID-19 positive or negative (Python).
- Coauthored a research paper on privacy preserving computation in healthcare.

EDUCATION

Massachusetts Institute of Technology | Computer Science | GPA 5.0/5.0 *Expected June 2025*
Courses (*Fall 2022): ML in Healthcare, Computer Vision, Advanced Algorithms*, Intro to ML, Fundamentals of Programming, Computer Architecture*, Probability*, Intro to Management*

Foothill College | GPA 4.0/4.0 *Dual Enrollment, July 2019 - June 2021*
Courses: Multivariable Calculus, Linear Algebra, Beginning C++, Intermediate C++, Network Basics

ACTIVITIES

MIT Battlecode Programming Competition | President *August 2022 – Present*

- Work to improve competitor dashboard (React, Python/Django) and competition infra (Google Cloud, Go)
- Manage development of Battlecode tech stack, handle large event logistics.

Gunn Robotics Team | Controls Lead *August 2019 – May 2021*

- Participated in FIRST Robotics Competition, led my subteam in programming/wiring the robot (Java, Python).
- Worked with LiDAR, OpenCV, robotics control, Arduino.