

Serena Li

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SKILLS

Programming

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

Other

Leadership, communication, teamwork, project management

WORK EXPERIENCE

Stealth Startup | Software Engineering Intern

San Francisco | June 2021 – August 2021

- Built parts of an event sourcing model for an ontology, as well as parts of an ontology editor
- Built a Slack bot that calculates customer metrics, scrapes physician schedules from our EMR system, generates groups of employees to product test, and sends notifications when an important client interaction occurred with the product. Saved the team 5 hours of manual work per week.
- Worked closely with customer operations team and medical consultants.
- Enhanced a data transfer feature to save the customer operations team 10 hours of work per week

Liphardt Lab, Stanford University | Research Intern

Remote | June 2020 – September 2020

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

EDUCATION

Massachusetts Institute of Technology | Cambridge, MA

Expected Graduation June 2025

Courses: 6.006 (Intro to Algorithms), 6.036 (Intro to Machine Learning)

Foothill College | Los Altos Hills, CA | GPA 4.0/4.0

Dual Enrollment, July 2019 - June 2021

Courses: Beginning C++, Intermediate C++, Network Basics, Multivariable Calculus, Linear Algebra

ACTIVITIES

Gunn Robotics Team | Controls Lead

August 2019 – May 2021

- Participated in FIRST Robotics Competition. See github.com/grt192, our open source codebase.
- Led the controls subgroup in programming, wiring the robot, and training rookies.
- Designed and implemented pipeline using LIDAR and OpenCV to detect a target.
- Implemented driver control, robotic mechanism control, and drivetrain control.
- Developed and taught Arduino workshops to 35 members of the team.

GunnHacks 7.0 | Lead Organizer

August 2019 – May 2021

- Organized Gunn High School's annual hackathon (Feb 2021, 230 attendees, 70 projects created)
- Coordinated a 16 person team to organize workshops, get sponsors, publicize, etc.

MISCELLANEOUS

Oracle Certified Associate, Java SE 8 Programmer, 2019

USACO Gold Contestant (top percentage of competitors in the USA Computing Olympiad)