

Yibin Li

Personal Website : <http://yibin-li.github.io/>
GitHub : github.com/Yibin-Li

Email : liyibin516@berkeley.edu
Mobile : +1-510-944-9278
Linkedin: [/in/yibin-li516](https://www.linkedin.com/in/yibin-li516)

EDUCATION

University of California, Berkeley

GPA: 3.6

Master of Science in **Electrical Engineering and Computer Science**

May 2021 - May 2022

Bachelor of Science in **Electrical Engineering and Computer Science**

Aug 2017 - May 2021

Relevant Courses: Efficient Algorithms, Data Structure, Machine Learning, Optimization, Computer Vision, Robotics

TECHNICAL SKILLS

Programming Languages: **Python**, Java, JavaScript, SQL, HTML, CSS, Scheme, **C**, **C++**

Technologies: **Protocol Buffer**, **Apache Spark**, **Hadoop**, **Linux**, **Git**, Bash, Docker, AWS, React Native, **ROS**

Machine Learning: **PyTorch**, Tensorflow, **OpenCV**, OpenAI Gym, TensorBoard, **NumPy**, **SciPy**, Pandas

PROFESSIONAL EXPERIENCE

Waymo

Software Engineering Intern, Perception

May. 2021 - Aug. 2021

- Developed an automation pipeline of labeling association for 3D perception object and 2D camera detection
- Wrote 3000+ lines of C++ code and integrated the labeling pipeline into Waymo perception codebase

Yahoo!

Software Engineering Intern, Yahoo! Mail Intelligence

Jun. 2020 - Aug. 2020

- Developed a scalable and adaptive multitask deep learning model for email question/answering on Yahoo! mail data
- Built a reusable distributed data processing pipeline with Spark, Hadoop, Hive, Pig; saved processed data to HDFS
- Trained the model on **100 million** records of email data and achieved **90% F1 score**

UC Ergonomics Lab

Software Engineering Intern

Jun. 2019 - Aug. 2019

- Helped assembly line workers understand their daily activities and prevent potential physical injury by training a neural network to classify human actions, with data collected from IMU sensors
- Processed the raw data with **Pandas** and trained the network with PyTorch. The **PyTorch** residual neural network reaches **92%** accuracy on Time-series human actions recognition task among 14 activities after training

Berkeley AI Research Lab (BAIR)

Undergraduate Researcher, advised by Professor Avideh Zakhour

Apr. 2020 - present

- Researched on thin object depth estimation from monocular depth estimation model and sparse point cloud
- Accurately detected thin objects by constructing point cloud from Intel T265 and D435 camera pose triangulation
- Designed a regression-based algorithm to convert relative depth from monocular depth estimation model to absolute depth; the converted absolute depth pixel-wise error is within $\pm 6\%$ of the ground-truth depth map

Flourish

Software Engineering Intern

May. 2018 - Aug. 2018

- Worked with an agile team to develop a mobile app which introduces an entertaining way for personal finance
- Collaborated with design team to optimize and integrate the frame of Plaid API using **React Native and Figma**
- Implemented two in-app games using **JavaScript** to increase customer stickiness and validated with AB testing

LEADERSHIP & CAMPUS ACTIVITIES

Robomaster at Berkeley

Co-founder, President

Oct. 2018 - Present

- Initiated and led a team of 15 that broke into ICRA Robomaster AI Challenge 2019 final round and won 2nd prize

UC Berkeley College of Engineering

CS Tutor

Jan. 2019 - present

- Taught weekly sections and hosted office hours for *Computer Vision (CS 194-26)* and *Data Structures (CS 61B)*