https://github.com/JonathanSum/

Mobile :XXXXXX

EDUCATION

California State University, Los Angeles

Bachelor of Science in Computer Science

Pasadena City College

Math and Technology AA Transfer Degree

Los Angeles, CA

Aug 2020 - Jun 2022

Email: XXXXX.com

Pasadena, CA

Feb 2018 - Jun 2020

EXPERIENCE

We2Link Los Angeles, CA

Agile Software Engineer(React Native/AI(Deep Learning))

Aug 2021 - May 2022

- Mobile App Developer: 35% speed up the development of IOS and Android app by Agile method. I solely implemented many solutions, tested them on Android and IOS, and reported to the team in every 3 days.
- UI Animation: Solely solved the 2D recording animation widget issues; the team couldn't solve it last year.
- Machine Learning: Created a caregiver AI by a trained Pytorch AI model to perform language comprehension tasks to assist traumatic brain injury(TBI) patients for their memory loss problems.

DeepLearning.AI at Coursera

Remote, United States

Software and Course Quality Assurance(<u>link</u>)

Aug 2020 - Nov 2021

• Quality Assurance Engineer: 30 % speeded up the building process on multiple DeepLearning.ai courses on course code, course design, and course lecture with the Agile method. Attended multiple meetings to review and decided our work and role from the manager and the team for a course with 60000 learners.

Harvard NLP

Remote, United States

Pytorch Engineer (Harvard University website link)

Aug 2021 - Jun 2022

• Software Engineer: Rewrote the NLP Pytorch code for compatibility version issues, and improved its resource requirement to allow learners, who do not have GPU, to train the model by themselves.

Projects

Paddy Disease Detector (Computer Vision, Kaggle): Built a Paddy disease detector with 97.8% accuracy AI by myself to classify paddy disease; won 2 bronze medals by Kaggle after getting into the top 5.

Facebook's React.js Computer Vision Project (React.js Deep Learning, GitHub): Built a computer vision project in React.js and Pytorch, and reviewed by the Pytorch team before being part of Facebook's code.

AI Natural Disaster Detection (Computer Vision, GitHub): Used Deep Learning model to label house damage level by natural disasters on the satellite image.

Currency Value Back-End Server (Express.js, GitHub): Implemented a Rest API backend server and command line in Express.js to display real-time currency information.

CART Software for Deaf Students (React.js Material UI V5, GitHub): Designed and implemented the assistive software, in React Material UI V5, for deaf students to understand the class lecture.

Co-purchasing Algorithm (Java Graph Algorithm): Implemented advanced graph algorithm in Java to use Amazon 2013 co-purchasing dataset to suggest an additional product for the customers.

AI Colorization Model (<u>Deep Learning</u>, <u>GitHub</u>): Implemented the **Pytorch model** that can color images from black and white.

SKILLS IN PROGRAMMING LANGUAGES, LIBRARIES, AND FRAMEWORKS

Proficient: Java, Deep Learning, FrontEnd, Web Development, React.js, Redux

Intermediate: Python, C++, JavaScript(ES5/ES6), Computer Vision, Natural Language Processing, Pytorch, Scikit-Learn, ML Ops, React.js, Express.js, Git, React Native, Unity3D, AWS Cloud, Android Development

Coursera Certifications by Stanford University, UCSD, Google, etc (Certifications links):

25 certifications, 6 specializations in Machine Learning, Java, Deep Learning, and more.

My Strength: Writing algorithms, building React.js apps for building websites or mobile apps, and using Pytorch for AI task.