

Jonathan Sum

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EDUCATION

California State University, Los Angeles

Bachelor of Science in Computer Science

Los Angeles, CA

Aug 2020 – Jun 2022

Pasadena City College

Math and Technology AA Transfer Degree

Pasadena, CA

Feb 2018 – Jun 2020

EXPERIENCE

We2Link

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

Los Angeles, CA

Aug 2021 – May 2022

- **Mobile App Developer:** Speed up the development of IOS and Android app by **Agile method** with implementing 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.
- **Deep Learning(NLP):** 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 (AWS/NLP)

Software and Course Quality Assurance(link)

Remote, United States

Aug 2020 – Nov 2021

- **Software Course Designer:** Sped 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

Pytorch Engineer (Harvard University website link)

Remote, United States

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.

NYU DS-GA 1008 Deep Learning Course by Yann LeCun, etc

Course Editor/Open Source Contributor (link)

Remote, United States

July 2020 – Feb 2022

- **Course Editor:** Fixed issues for the **Pytorch** course code to ensure 100% no issue and modified the reading.

PROJECTS

Paddy Disease Detector (Computer Vision, Kaggle link): 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 link): A **computer vision** website can classify 1000 objects, and the Pytorch team pushed the code to be part of **Facebook's code**.

AI Building Damage Detector using Satellite Image (Computer Vision, GitHub link): Trained a **Deep Learning** UNet model to label house damage level on the satellite image.

Full Stack Profile Website in Es6, Express.js, and MUIv5 React.js (GitHub link): Project for Blue-White Industries company, a security JSON Web Token (JWT) login in and a responsive UI.

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

AI Colorization Model (Deep Learning, GitHub link): One of the top challenging Deep Learning AI problems on coloring the image back again from black and white with 4 hours of training with V100 GPU.

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 Courses Certifications by Stanford University, UCSD, Google, Deep Learning.ai, etc:
Deep Learning, Machine Learning, Object Oriented Java Programming, etc