

Jonathan Sum

<https://github.com/JonathanSum/>

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EXPERIENCE

Software Engineer (React Native/Deep Learning ([link](#)))

Aug 2021 - May 2022

We2Link

Los Angeles, CA

- **Mobile App Developer:** Implement the mobile UI, designed by the design team, for **Android and IOS** in React Native.
- **UI Animation:** Implement the 2D reordering animation widget to allow users to reorder a group of functional widgets with hold and drop.
- **Deep Learning(NLP):** Implement an offline caregiver **AI** in the app to answer questions for brain Injury patients based on daily reminders for certain documents if they ask questions.

Software and Course Quality Assurance([link](#))

Aug 2020 - Nov 2021

DeepLearning.AI at Coursera (NLP)

Remote, United States

- **Software Course Designer:** Give improvement to the team and unit test of the course code before the course was published with a signed non-disclosure agreement. **Mentored 60000 learners** after the company published the course.

Software Engineer ([Harvard University website link](#))

Aug 2021 - Jun 2022

Harvard NLP

Remote, United States

- **Software Engineer:** Rewrote the NLP **Pytorch** model code base into a more modern and newer version, and rewrote it to allow learners to train it without using high-end GPU.

Course Editor/Open Source Contributor ([link](#))

July 2020 - Feb 2022

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

Remote, United States

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

EDUCATION

California State University, Los Angeles (3.1 GPA)

Los Angeles, CA

Bachelor of Science in Computer Science

Aug 2020 - Jun 2022

Pasadena City College

Pasadena, CA

Math and Technology AA Transfer Degree

Feb 2018 - Jun 2020

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.

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.

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

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.

Full Stack authentication profile Website in Express.js, and MUIv5 React.js (GitHub [link](#)):

Project for Blue-White Industries company using a security JSON Web Token (JWT) login in and a responsive UI.

SKILLS IN PROGRAMMING LANGUAGES, LIBRARIES, AND FRAMEWORKS

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

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

Coursera Certifications by Stanford University, UCSD, Deep Learning.ai, Meta, etc:

42 courses cert. and 7 specializations in Deep Learning, Machine Learning, Object Oriented Java Programming, etc.