Jonathan Sum
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Education

California State University, Los Angeles — 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*

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.

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, 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.