

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:** Bought the design team's vision to life by creating captivating and intuitive mobile applications for **Android and IOS** using React Native.
- **UX Design:** Implemented a 2D reordering animation feature to keep important widgets on the top to save time.
- **Deep Learning(NLP):** Developed and implemented a Transformer based AI to assist brain-injured patients by answering questions, such as daily directions, to reduce tasks for the caregivers.

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

Aug 2021 - Jun 2022

Harvard NLP

Remote, United States

- **Software Engineer:** Revamped **Pytorch** NLP model codebase from a 2017 standard to a 2022 standard, empowered learners to train without high-end GPUs. Boosted model performance and efficiency.

EDUCATION

California State University, Los Angeles

Los Angeles, CA

Bachelor of Science in Computer Science; 3.2/4.0 GPA

Graduated on Jun 2022

Meta Certificate on Front-End, Back-End, Android Developer

Meta Certificate in Front-End Developer ([Certificate Link](#))

Jan 2023 - July 2023

PROJECTS

Paddy Disease Computer Vision Detector ([Kaggle link](#)):

- a) Developed a highly accurate Paddy Disease Detector with 97.8% AI classification accuracy.
- b) Built and trained a Pytorch deep-learning customized ConvNext model.

Automate Post-Disaster Damage Recognition System ([GitHub link](#)):

- a) Developed a Deep Learning UNet model application to label house damage levels on satellite images.

React.js Computer Vision Project ([GitHub link](#)):

- a) React web app with ResNet model for classifying 1000+ objects, now integrated into PyTorch's codebase.

AI Colorization Model ([GitHub link](#)):

- a) Transformed black and white images into vibrant, lifelike masterpieces using the Deep Learning model.

Android Restaurant App([GitHub link](#)):

- a) Enabled food ordering and showed restaurant menus for customers with Kotlin and Jetpack.

Full Stack User Login Website ([GitHub link](#)):

- a) Developed a secure login website using JSON Web Tokens (JWT) and a responsive UI(MUIv5) and Express.js as the backend.

SKILLS AND CERTIFICATIONS

AI: Deep Learning, Computer Vision, Large Language Models(NLP), Diffusion Models, LangChain, Scikit-Learn

Software(Web/Mobile/others): React.js, Redux, Express.js(Node.js), Django Android Development(Kotlin and Jetpack), React Native, MySQL, Figma(UI/UX), MongoDB, Java, Python, C++, JavaScript(ES5/ES6)

Coursera Certifications (2023/04/17) by [Stanford University](#), [UCSD](#), [Deep Learning.ai](#), [Meta](#), etc:

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