

Jonathan Sum

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EXPERIENCE

We2Link

Los Angeles, CA

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

Aug 2021 - May 2022

- **Mobile App Developer:** Built React Native IOS and Android apps in Agile software development.
- **UI implementer:** Integrated customizable 2D reordering widgets UI for the app.
- **Machine Learning:** Create an AI with a trained AI model to be a virtual caregiver for a traumatic brain injury(TBI) patient. It can assist their memory loss problems, such as forgetting daily tasks or certain events.

DeepLearning.AI at Coursera

Remote, United States

Software Testing ([link](#))

Aug 2020 - Nov 2021

- **Tester:** Tested the code and provided guidance in the alpha testing phase and the beta testing phase.
- **Agile:** Attended meetings with the team and the QA manager for the testing process and provided improvement.

NYU DS-GA 1008 Deep Learning Course by LeCun and Alfredo

Remote, United States

Open Source Contributor ([link](#))

Jun 2020 - Dec 2020

- **Course Editor:** Tested and wrote the GitHub course code to avoid crashing, and edited the GitHub document.

Harvard NLP

Remote, United States

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

Aug 2021 - Jun 2022

- **Software Engineer:** Rewrote the codebase to update the Pytorch model in *The Annotated Transformer*.

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

PROJECTS

Paddy Disease Detector ([Kaggle link](#)): Built a Pytorch Computer Vision AI project by myself to classify paddy disease; won 2 bronze medals by Kaggle after getting into the top 5 rankings with 30 plus people.

(Computer Vision Project for Facebook Repo ([GitHub link](#))): Built the Computer Vision project per request from Facebook GitHub for their code repo.

Computer Vision for Satellite Image ([GitHub link](#)): Built AI Model that can label house damage level on satellite images.

Cryptocurrency Value Back-End Server ([GitHub link](#)): Implemented a Rest API backend server and command line for real-time cryptocurrency information display.

CART Software for Deaf Students ([GitHub link](#)): Designed and Implemented the assistive software for deaf students to understand the class lecture.

Co-purchasing Algorithm: Product suggestion algorithm with Amazon 2013 co-purchasing metadata.

Image Colorization Model ([GitHub link](#)): AI Model for colorizing black and white images.

More: React-Redux Heroku website for a start-up in 2017 ([GitHub link](#))/C++ QT5 CRUD GUI app([GitHub link](#)).

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: Besides writing algorithms, and building mobile apps and websites; I write AI for some AI problems.