Collin Zhang

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EDUCATION

New York University
B.S. Computer Science; B.S., Business.
Sep 2019 - Jun 2023, New York

Nanjing Foreign Language School
Sep 2016 - Jun 2019, Nanjing

PROJECT EXPERIENCE

CoCreate
Team Leader (Oct 2019 - June 2021)

- An iOS app integrating real-time collaboration with hand-writing drawing board based on Apple Pencil

- Design of data structure and search algorithm to realize high performance write, read, search, and update (includes pen, eraser and lasso) function, and algorithm to improve performance of Apple Pencil writing

- Technology stack: Swift, SQLite, MVC Architecture, Socket.IO, Flask, Gunicorn, Nginx

- Using Github and Lark to set goals and collaborate with team members

- https://apps.apple.com/tt/app/cocreate-draw-together/id1548911886?ign-mpt=uo

Covid-19 abnormalities detection on chest radiographs
July 2021 - August 2021

- Build a model to detect abnormal area and determine if the patient has Covid-19

- Preprocess data with pandas, visualize the radiographs with matplotlib and pydicom, performing EDA

- Train a Cascade R-CNN for bounding box regression with mmdetection

- Train a EfficientNet for classification with keras

ItemMemo
Developer (Sep 2020 - Oct 2020)

- An iOS app that helps users stop losing things

- Technology stack: WidgetKit, WatchKit and SwiftUI

- Application of Growth Hacking: cooperate with KOLs on Social Media to achieve fast growth of downloads; campaigns on Facebook Ads to attract users from United States

- Got a downloads of 11k around the world

- https://apps.apple.com/cn/app/id1531614603

INTERNSHIP EXPERIENCE

Supersymmetry
iOS Developer (Jan 2021 - May 2021)

- Participate in developing a social media app: Project Z

- Technology Stack: Swift, RxSwift, Starscream, Moya

- Write reusable UI components with SnapKit, Use of Moya to abstract the api call for understandable code

- Discuss with colleagues from backends for implementation of business logic which is efficient, easier to implement and supports backward compatibility

SKILLS AND OTHERS

- Bilingual in Chinese and English

- Programming languages: Swift, Python, Java, C++, Javascript, SQL, HTML/CSS

- Contribution to Tensorflow, Keras, and mmdetection on Github