Kuixi Song

Education

Carnegie Mellon University, Information Networking Institute

Master of Science in Information Technology - Mobility; GPA: 3.90 / 4.00 Courses: Intro to Computer Systems; Intro to Machine Learning; Distributed Systems; Search Engines; Intro to Information Security

Nanjing University, Software Institute

Bachelor of Engineering in Software Engineering; GPA: 4.40 / 5.00; Ranking: Top 10% Courses: Data Structure and Algorithm; Operating System; J2EE; Software Engineering and Computing; Software System Design

Skills

iOS Development, Swift, Objective-C, Java / Java EE, C, Python, Golang, Machine Learning, Search Engines, SQL, C++, C#, React

Work Experience

LinkedIn

Software Engineer Intern, Group of Voyager-iOS, Flagship Division

- Designed and created a badge view and a pending join member list on group management page to improve admin's visibility of the requests to join the group, thus increasing the request acceptance rate.
- Refactored the network fetching workflow of sending kudos to other users in the LinkedIn iOS app, enhanced user experience by adding error placeholder views, increased network efficiency and decreased user-perceived loading time.
- Developed in Swift and Objective-C respectively; coordinated with India team for initial UI design and code review.

Microsoft (China) Co., Ltd.

Software Engineer Intern, Group of Xiaoice, Artificial Intelligence Creation Division

- Transformed MIDI files to formatted texts, performed melody extraction and chord detection in Python to produce training data. •
- Generated music pieces from user inputs based on data fed and trained by a seq2seq model.

Goldman Sachs (Asia) L.L.C.

Summer Analyst, Mobile Team, Platform Division

- Built a React app to scan and extract information from business cards with OCR API and save results to users' mobile phones.
- Dealt with all phases of software engineering, including requirement engineering, design, development, testing and deployment. Cooperated with international teams across regions and time zones for collaborative design and code review.

Academic & Personal Projects (Selection)

- A Golang distributed bitcoin miner based on a client-server protocol, from course Distributed Systems 10/2020 • Implemented a UDP variant which ensures communication reliability and integrity with sequence number and checksum. Built a simple distributed bitcoin miner which provides fault tolerance and load balancing across servers using segregated lists. ChaReader, Available in the App Store, written in Swift 09/2020 • Built an iOS app to import articles from images, webpages, documents and convert article texts to audios using AVFoundation. • Uses Grand Central Dispatch to export reading audios to mp3 files in parallel within < 15% time of when using a single thread. A Java lucene-based search engine, from course Search Engines 04/2020 • Implemented a lucene-based search engine with multiple ranking algorithms including Ranked Boolean, BM25, Indri, LeToR. ARTargetShooting, Secured 2018 Apple Worldwide Developer Conference Scholarship 05/2018 • Added virtual objects in augmented reality with ARKit and SceneKit, creating an immersive AR shooting game experience. Keeping!, Available in the App Store, written in Objective-C 02/2017 • Developed a daily task management iOS app to check daily jobs, track the progress of ongoing work and simplify workflow. • Utilizes iOS features including local notifications and URL Schemes to provide a seamless user experience to complete tasks. JapaneseWordbook, Available in the App Store, Recommended in App Store in 06/2018 03/2016 • Built a Japanese vocabulary iOS app which allows users to import new words into lists and do exercise with them. • Refactored in past 4 years continuously to modify architecture and enhance stability to achieve crash-free session rate > 99.9%. • Written in Objective-C with a MVVM pattern; built a Python Django server for word search; used SQLite for local database.
 - Accumulated a userbase more than 95,000.

Honors and Awards

- 2018 WWDC Scholarship, Received for ARTargetShooting project 2017 Championship and Best Individual of iQivi National Programmer Contest
- 2016 **People's Scholarship of Nanjing University**

Mountain View, CA, 05/2020-08/2020

Pittsburgh, PA, 08/2019 - Expected 05/2021

Nanjing, Jiangsu, China, 09/2015-06/2019

Hong Kong, China, 07/2018-09/2018

Suzhou, Jiangsu, China, 10/2018 - 12/2018