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Developer



[My Blog](#)

[GitHub](#)

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Summary

Advanced developer with 6 years of experience in coding and maintenance.

Strong believer of Can-do attitude. Expert in system optimisation and performance improvement.

Strong background in mathematics, algorithms, and data-processing.

Education Background

2019.01 - 2020.05, [Nanyang Technological University](#), Singapore, Computer Science, Master Degree

2013.09 - 2017.06, [Liaoning Technical University](#), China, Communication Engineering, Bachelor Degree

Skills & Expertise

Programming Languages

Swift

Objective-C

Node.js

Python

Shell

Frameworks & APIs

Cocoa

Cycript

lldb

React

Software & Tools

Reveal

Hopper

Charles

Experience

[NTU](#) (Nanyang Technological University, Singapore)

2017.02 - Present, Researcher

- In charge of the blockchain-based energy trading platform design and implementation, designed the structure of the related projects, led the development team on research and development, responsible for the code quality and code review work
- Made a Reinforcement Learning based thermal simulation model by using TRNSYS and implemented a sophisticated system to monitor and control real-time simulation on the website
- Led the mobile-end development team. Responsible for end-to-end design and development of multiple apps that supports the use of simultaneous 6k users, including registration, shopping, payment and order systems
- Optimised and refactored the iOS project by reducing the count of third-party libraries from 51 to 13, significantly improved the app running performance and diminished the size of the app from 22.1M to 3.7M
- Fixed several memory leaks and retain cycles & Designed the new architecture, experienced in the low-level design. Enhanced the app performance from the memory cost, and the network layer
- Participated in the development of the websites using React framework and delivered a complete project independently

[Shanbay](#) (Nanjing Beiwan Education & Technology LTD.)

2016.07 - 2016.10, iOS Developer

- Delivered several refactored modules, including Punch Plan, Wordbook, Push Notification, Badge module, and the crash rate was always controlled lower than 1.5%
- Developed the Insurance Plan module with another colleague, it is implemented in React Native
- Integrated the payment system, to avoid paying the 30% fee for Apple's iAP
- Automation scripts maintenance & Took part in the code review
- Open-sourced a component on GitHub

Projects Experience

LNTU EDU Online Project (Personal Project)

2014.08 - 2016.12, Founder & Developer

[Website](#) [App Store](#) [Google Play](#) [GitHub](#)

- This project had more than 35,000 users, and up to 11,000 daily active users. It is designed to improve the score inquiry experience of students. With this application, students can check their scores and class time schedule conveniently
- Developed the iOS app, back-end application and the community forum
- Technology stack in use: Java, Node.js, Objective-C, Swift

App Architecture (Technical Book)

2018.05 - 2018.07, Translator

[Website](#)

- This book explains a range of application design patterns and their implementation techniques using a single example app, fully implemented in five design patterns
- Translated and revised several chapters, and made subtitles for the accompanying videos

Objccn.io (Technical Articles)

2015.02 - 2017.06, Contributor

[Website](#)

- ObjC China (objccn.io) was built for helping Chinese to read the foreign language technology documents. The community members contribute the translation of the articles, and the article would be published on this website after revising
- Translated several issues

Finally

Additionally, I also have great interest in traveling and photography, photos taken on the road can be found in my [500px](#) page.

Thank you for your patience in reading my resume.