

# Tianren Tan

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## EDUCATION

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### University of California, Irvine

*Master of Software Engineering*

California, USA

*Expected December 2022*

- **GPA:** 4.0
- **Core Courses:** Data Structure and Algorithms, Information Retrieval, Distributed Software Architecture, Reverse Engineering/Modeling, Software Security and Dependability

### Wuhan University

*Bachelor of Software Engineering*

Hubei, China

*September 2016 - June 2020*

- Vice President of Microsoft Student Club
- **Best Mobile Application Prize** from 13th Citi Cup Financial Innovation and Application competition
- Honorable mention in 2018 US Mathematical Contest in Modeling

## TECHNICAL SKILLS

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**Languages:** Java, C++, C#, JavaScript, MySQL, Python, HMTL/CSS

**Frameworks:** Node.js, Koa.js, Vue.js, React, OpenCV, jQuery, Spring Boot, RxJava

**Platforms and Tools:** Maven, Git, Tomcat, IntelliJ IDEA, VScode, Excel, PowerPoint

## EXPERIENCE

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### Front-end Development Internship

*CertiK*

June 2019 - August 2019

*New York City, USA*

- Developed and deployed a Google Chrome plug-in for peer point testing in the CertiK Testnet using **JavaScript and CSS**. Reduced process time for internal users and developers to switch from external nodes to Testnet from **several minutes to one second**.
- Restructured company webpage single handedly using **React**. Designed a responsive user interface and ensured search engine optimization. Deployed and launched website using **Netlify and Gatsby**, improved website response time by **10%**.
- Performed several development unit-testing with **Jest** integrated on Ubuntu 16.04. Maintained company website code base, individually detected and solved several potential vulnerabilities.

### Software Development Internship

*Alibaba Inc.*

September 2020 – November 2020

*Beijing, China*

- Realized an intuitive design for a data statistics website using **Vue, HTML/CSS**, conducted several statistical analyzations and produced **over 20** informative statistical charts with **echarts** for multiple classification analysis.
- Enhanced an asynchronous call-back framework connecting to backend API using **axios**, improved webpage loading time by **200%** through adapting lazy loading.
- Implemented **Koa and Node.js** for backend design, ensured a comprehensive **RESTful API**, establishing a structured **MVP** design.

## PROJECTS

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### MBTA Manager | *Xamarin, C#*

July 2018 – August 2018

- Independently developed in only **two weeks** a cross platform mobile application using **Xamarin**, providing travelling information, alert reminder services and schedule optimizations in Boston. Rated No 1 project in a Harvard class of 20+ competitive peers from leading non-US universities.
- Established a concise and presentational code-base using MVVM design pattern, decreased startup time by **2 seconds**.

### Coupon Exchange Platform | *Android, Java, Retrofit, OkHttp*

June 2017 - November 2017

- Implemented reactive programming with **RxAndroid** to enhance asynchronous performance
- Reduced page rendering time by **30%** by implementing **Disk LRU Cache**
- Established asynchronous and type-safe HTTP requests using **Retrofit2** to interact with back-end API

### APAP-Processor | *C++, OpenCV, Eigen*

September 2017 - February 2018

- Performed highly precise feature points marking with SIFT and RANSAC, demonstrating **90%** accuracy on public testing data up to **1500x2000 pixels** large.
- Introduced **super pixel segmentation** in image preprocessing, increased image stitching validity by **2.8%**.