

Brian Han

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EDUCATION

Shanghai Jiao Tong University

Shanghai, China

- *Bachelor of Science in Software Engineering;*

Courses covered: Computer Systems, Machine Learning, Web Development, Software Engineering
Sept. 2019 to Jul. 2023

HONORS

- **Shanghai Government Scholarship** 2020.5, 2021.5

TECHNICAL SKILLS(USED DURING STUDIES)

- **Programming:** C, C++, Python(ML, Scripts for Web), JavaScript(front), Java, Kotlin, C#;
- **Web Development:** HTML, CSS, React, Spring-boot, Django, MySQL, MongoDB, Redis;
- **Mobile Development:** Android Studio, React-Native
- **Digital Media Development:** Qt, Unity 3D, OpenGL;
- **DevOps:** Git, Nginx, UML;
- **Testing:** Selenium, Jmeter;

PROJECTS

- **Advanced E-book——Web Application Project for SE367: Architecture of Enterprise Applications**
Full-Stack Developer

- **Introduction::** React + Spring Boot + MySQL/MongoDB based online bookstore mall website.
- **JMS:** Used JMS to implement the order placement message queue. Asynchronous processing of requests from users for back-end consumer to complete the transaction during the idle period. Improve the efficiency of order placement and throughput.
- **Lucene:** The Lucene full-text search engine indexes the text of book profiles, allowing users to perform full-text searches quickly and efficiently.
- **Redis:** Using Redis as a cache for book information greatly reduces the pressure on the MySQL database and improves access speed and stability.
- **Clustering:** Built an cluster of the bookstore applications with 1 nginx instance (load balancing) + 1 Redis instance (storing sessions) + 2 Tomcat instances(M-S Backups for MySQL).

- **Q&A bot——Summer-semester Project in the School of Software**

Team Leader & Front-End Developer & Back-End Developer

- **Introduction:** React Native + Django + chatterbot + SQLite based Q&A Android app. In addition to QA function, app provides API purchase&access service for developers and words frequency statistics for users.
- **Front-End:** Designed the Chat Page UI that saves and displays the messages queue, implemented with React Native.
Designed the UI for developers to purchase and view API, implemented with React Native.
- **Architecture:** Designed C/S architecture with built-in MVC structure, modeling it in UML.
- **Spider:** Programmed Scrapy scripts for the spider that grabs the relevant answers from zhihu when the model cannot give a satisfactory answer.

- **Cool Media Player——Final Project for ByteDance-SJTU-Android2022**

Function Designer & Android Developer

- **Introduction:** : A native Android App developped in Kotlin which can play or record videos with Danmaku as well as edit with subtitles.