Zihan Lyu

② Zihan.Lyu@rice.edu in linkedin.com/in/zihan-lyu-387b81161/ \square (+1)8326774453



Rice University

M.S. in Computer Science

Houston, TX, USA

August 2021 - December 2022

Communication University of China

B.E. in Information Security (GPA:3.81/4.00)

Beijing, China Sep 2016 - June 2020

TECHNICAL SKILLS

Languages: JavaScript, HTML/CSS, Python, C/C++, Java

Frameworks: React, ES6, Node.js, Webpack, Bootstrap, Koa, Flask, Django

Developer Tools: Git, Postman, MySQL

WORK EXPERIENCE

Bytedance Ltd. - TikTok Department

June 2020 – May 2021

Front-end Engineer

Beijing, China

Our team is working on a full process management platform called Miigo. The DAU of Miigo is about 20k+, and tens of thousands of data are processed every day, which generated a lot of revenue for the company.

- Implemented features and optimized experience of Miigo using React+Mobx+Koa, proficient in the use of React frameworks and related tools(redux|react-router|webpack)
- Refactored the program code to comply with ES6 and Typescript rules, significantly improving the reusability and readability of the code, and speeding up page rendering
- Designed **SQL** statements to query and update user data, produced **NodeJS** code to implement remote calling of RPC interfaces, reducing the response time of multiple interfaces to less than 1 second
- Optimized the UI and the UE interaction of the platform using **Ant Design**, resulting in a 23% increase in new users and a 78% increase in existing user satisfaction
- Organized technology sharing meetings within the team to learn new technologies continuously and promote team communication

Bytedance Ltd. - TopBuzz Department

April 2019 – May 2020

Software Engineer Intern

Beijing, China

- Designed and developed a Test Code Coverage tool, the front-end uses Echart+AnimateCSS to enhance user experience, and the back-end uses **Python** for data filtering and processing. 13+ products of the company connected to this tool. Discovered hundreds of missing cases, prevented at least 70-80 errors from directly publishing to users, and avoided millions of dollars in losses.
- Deployed a small-scale data monitoring and errors alarm platform by using Vue+Go+MySQL technology, the tool focuses on back-end data processing to ensure the timeliness and accuracy of feedback. This tool is mainly used in mini-games in Topbuzz, collecting user data to assist recommendation algorithms and avoid program crashes in time.

□ Projects

A Teaching Quality Evaluation System | Vue, Python, Django, Mongo DB

March 2020 - May 2020

- \bullet Developed a full-stack web application using **Django** and with **Vue** as the frontend
- Focused on splitting components and using hooks during the development to simplify the codes and improve system efficiency, thus bring a better experience to users
- The CUC is building a more complete and robust system based on my output, and it will be officially put into use in the future

Go Travel | Vue, Bootstrap, Apache, Git

February 2019 – May 2019

- Developed a visual SPWA that provides users with a traveling guide through positioning techniques
- Utilized Vue+Bootstrap to build responsive pages, utilized Location Based Service to get the user's location, used Python to analyze and calculate the user's favorite travel route, besides, used Apache ECharts and CSS Animations to virtually display recommend results
- The site has been put into use and under continuous maintenance with a total of 800-1300 users