JIANGQI. ZHU

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EDUCATION

Carnegie Mellon University	Moffett Field, CA, USA
Master of Software Management. Focus in Computer Software Engineering.	Sept. 2022 - Dec. 2023
Queen Mary University of London (QMUL)	London, UK
Bachelor of Science (Engineering) with Honours, First Class; Ranked 3 out of 316 students	Sept. 2017 - Jul. 2021

SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, C/C++

Frameworks: Node.js, React.js, Vue.js, Webpack, ES6, Koa, Express, RPC

Developer Tools: Git, Postman, MySQL, MongoDB, ECharts, Monorepo

WORK EXPERIENCE

TikTok, ByteDance Ltd. | TypeScript, React.js, Node.js, H5, Cross-Platform	Beijing, CN
Full-time Software Development Engineer	Aug. 2021 - Jun.2022

TikTok Mobile Application Live Broadcast Product (To Client)

- Led the creation of Video Playback webpage with **2,000,000+ daily Page Views(PV)** by cross-platform (Android and IOS) technology based on **React.js**. With a **First Paint Time (FP) of less than 50 ms** and a **Time to Interactive (TTI) of less than 100 ms**, the page usage experience is comparable to native development.
- Designed several H5 interactive components with **React.js,** allows streamers and users to interact with each other. Utilized in six S-Level activities with **30+% interactive rate**, and **300,000+ daily Page Views(PV)**.
- Innovated optimization of projects and organized the **AB experiment**. Ultimately lead to a **40% decrease in FP and TTI**.
- Initiated migration of codebase to monorepo, developers only need to maintain one repository, the code deployment process was **50% faster**, and **enhance the manpower of 20%**.
- Organized online Oncall of websites and successfully handled **70+ on-calls** totally, **with a 100% favorable rate**.

TikTok, ByteDance Ltd. | TypeScript, React.js, Node.js, H5, Cross-Platform	Beijing, CN
Front-end Software Development Engineer Intern	Apr. 2021 - Aug.2021

Starfish Program Management Platform (To Business)

- Use Node.js's ReadStream module, allows users to configure entries attributes by uploading a CSV form. **Enhanced efficiency of operation staff by 25%**. Save five or more manpower per week.
- Completed 13 product iteration requirements and 3 performance improvement requirements using **React.js, Vue.js and Node.js**.

PROJECT EXPERIENCE

Undergraduate Graduation Project | Full Stack, Vue.js, Node.js, MongoDB, MySQL, System Design	Beijing, CN
Building an Multi-person Test Paper Editing Website	Sept. 2020 - Jun. 2021

- Established a web application with an MVVM system structure by using Express framework to build a backend server.
- Utilize **MySQL and MongoDB** databases for data storage according to application scenarios.
- Enable multiple users to synchronously edit documents through a **polling strategy** and **message queue model**.
- Implemented a compiler using **regularization and string parsing capabilities** that combines user input with a LaTeX template to generate a downloadable PDF file.

RESEARCH EXPERIENCE

Yale University | Biology-Interdisciplinary, Algorithm-Design, SCI-Paper	New Haven, CT, USA
Department of Statistics and Data Science, Development and Research	Mar. 2020 - Nov. 2020

- Implemented a weighted sampling algorithm, developed project website, publish an SCI paper

Tsinghua University | Active Learning, Python, SCI-Paper	Beijing, CN
Department of Computer Science, Development and Research	Mar. 2020 - Nov. 2020

- Present a new document-level event extraction dataset including 27,000+ events, 180,000+ arguments used to promote document-level event extraction task. Publish an SCI paper.