

LIANG ZILONG

Email: zliang96@outlook.com GitHub: @zliang



Education

Fudan University — Master's Degree

09/2019 – 06/2022

• School of Mathematical Sciences / Computational Mathematics

Fudan University — Bachelor's Degree

09/2015 – 06/2019

• School of Mathematical Sciences / Information and Computational Science

Work Experience

ByteDance — Senior Web Frontend Developer, Douyin E-commerce (Shanghai Gewu Zhiyuan Network Technology Co., Ltd.)

09/2024 – Present

- **Keywords:** React, TypeScript, Low-code Platform, Product Design, Architecture Design, Product Operations, Node.js Server-side Development
- **Rank:** 2-1
- Worked in the Douyin E-commerce Frontend Technology Department, participated in building a universal low-code platform for e-commerce
- Responsible for the page publishing and runtime modules of the low-code platform, familiar with low-code runtime architecture, material ecosystem, page production chain, etc.
- Followed product iterations from the internal startup phase, with experience in leading product requirement design, technical solution design, requirement development, and functional operations throughout the product iteration process
- Development work covers frontend pages and Node.js server-side development, familiar with server-side development, debugging, deployment, and log monitoring processes
- **Key project 1:** Designed, implemented, and promoted the low-code page publishing process, enabling low-code schema publishing and access to reuse the company's frontend R&D infrastructure, supporting multi-environment, internal and external network, gray release, and other custom pre- and post-publishing checks, helping 10+ e-commerce businesses achieve page R&D efficiency improvements
- **Key project 2:** Designed, implemented, and promoted the low-code page code rendering mode, helping businesses improve page runtime performance by over 40%, while providing performance analysis tools, offering a one-stop analysis and optimization solution for page performance

Tencent — Web Frontend Developer, R&D Efficiency Product (Tencent Technology (Shanghai) Co., Ltd.)

07/2022 – 09/2024

- **Keywords:** Vue, TypeScript, R&D Efficiency, DevOps, Kubernetes, Cloud Native
- **Rank:** Promoted from T5 to T7 within two years
- Worked in the Tencent Technical Engineering Group (TEG), participated in building a company-level R&D efficiency platform, supporting DevOps needs for 10,000+ development projects within the company
- Primarily responsible for the web frontend development of CI/CD products, including CI pipelines, artifact management, multi-region deployment orchestration, and other modern CI/CD features
- Familiar with the trending techs in DevOps such as Kubernetes cloud-native deployment, and familiar with the R&D and collaboration processes of web micro-frontend applications
- **Key project 1:** Supported new requirements for cloud-native deployment capabilities of the R&D efficiency platform, providing multi-region deployment orchestration, automated deployment pipelines, etc., helping key businesses like Tencent Meeting and QQ Channels to onboard, achieving R&D efficiency improvements; optimized continuous deployment interactions, continuously improving automated build and deployment efficiency, reducing artifact build time by 80%, and manual operation time for deployments across environments by 90%
- **Key project 2:** Optimized the architecture and quality of the CI/CD frontend modules of the R&D efficiency platform, implemented performance optimization and automated testing, making the platform more convenient and stable; by introducing build caching, separate packaging of third-party dependencies, module federation, etc., the module's own dependency build speed increased by about 70%; through module code splitting, dependency optimization, etc., client-side rendering LCP and other metrics improved by about 50%

Bilibili — Web Frontend Developer, Commercialization Technology (Intern) (Shanghai Bilibili Technology Co., Ltd.)

11/2020 – 08/2021

- **Keywords:** Vue, Commercialization, Ad Delivery System, DevOps
- Participated in the development of a large number of B2B commercialization infrastructures, such as CRM, ad delivery systems, content boosting systems, etc., familiar with commercialization-related business processes
- Participated in the development of reusable components for B2C activity pages of various commercialization products, improving efficiency and providing technical support for large-scale brand marketing projects

Personal Technical Projects

- Personal blog: <https://zliang.me>, also my technical experimental field, previously used Hexo, Next.js, VitePress, etc., current version built with Astro
- WeChat Miniprogram development: <https://github.com/zliang/fdu-classrooms>, an interest project during my studies, currently offline, provided valuable mini-program development experience
- Language interpreter development: <https://github.com/zliang/tslox> and <https://github.com/zliang/clox>

Skills

- Programming languages and tools: Proficient in JavaScript/TypeScript, Python, Shell, familiar with SQL, Go, Rust, etc.
- Frontend technology stack: Node.js, ES6, React, Next.js, CSS-in-JS, Vue, Vite, Vitest, Cypress/Playwright, Webpack, ESLint, etc.
- DevOps concepts and implementation skills: Test-driven Development, CI/CD, Docker, Kubernetes, etc.
- Language skills: English TOEFL 104, Japanese JLPT N2