CHUXULU-CV

Chu XuLu

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Self Introduce(Video)

Work Experience(video)

Education

2014/09-2018/06 Bachelor in Engineering.

College of Mechanical and Material Engineering, North China University of Technology.

Major: Mechanical Design, Manufacture & Automation.

2018/06-2019/03 Software Engineering Training.

Personal Skills

Chinese Language Ability: High **English Language Ability: Middle**

Programming Languages: JavaScript, TypeScript, C, Python, Java.

Web: React, Vue, Node.js, Next.js, koa, Express.js, HTML, CSS, Ant Design, Element UI.

Development tech: Webpack, Gulp.js, Rollup.js, Babel.js, npm, yarn, pnpm, Lodash, JQuery, Sequelize, TypeORM, MyBatis, Docker, Nginx, MySQL, Redis, Git.

Work Experience

2020/12-Present　Douyin Group，as Development project leader

Project 1、2: Letsign(The third party E-contract platform), Letfree(A platform for hiring professional remote workers)

Development Environment: VScode, WebStorm, Git, Chorme, Linux, Douyin Cloud.

Technology of application: React, React Hooks, SaaS, Webpack, qiankun, Umi, Recoil, FC & Hooks, Rush, ByDesign, Taro, pnmp, Node.js, Next.js, Gulu.js.

- From designing and developing complex web applications from scratch to fully functional, including project setup, continuous integration and environment deployment.
- For both PC and mobile, **React** is used as the core technology stack. Technologies used include React, React Hooks, hox, ByDesign React and qiankun, etc.
- For mobile phones, **Taro** is used to support both WeChat Mini Programs and H5 pages, achieving code reuse across multiple platforms with a single codebase.
- Love to share. Have shared contents about regular expressions, Shell scripts and business process walkthroughs, which were rated as **"the most useful business sharing"** by colleagues.

The Evolution of Front End Development Processes: Using design systems, implementing micro frontends, migrating to Monorepo.

- **Design Systems**
  - Since many **reusable code snippets** were copied into multiple projects, it is quite difficult to manage upgrades and transformations in a unified way.
  - Therefore, we designed and utilized **lerna** and **dumi** to establish design systems for both **PC** and **mobile**. The design systems contain not only component libraries, but also all reusable code, such as hooks, utils, CSS styles and so on.
- **Implementing Micro Frontends**
  - With time, the front end project maintained by the team has become increasingly large and difficult to maintain, becoming an **"Monolith project".**
  - Using the **qiankun** micro frontends architecture, the project is split into **different modules** that are independent of each other, with each module having its own Git repository.
- **Migrating to Monorepo**

- With the increasing adoption of micro frontends in the team, the number of Git repositories in projects has grown, making development more difficult.
- A migration to Monorepo was done, using **Rush.js** to aggregate the disparate Git repositories into a single codebase.

Project 3：Follew me(A Chrome extension that makes it easy to measure and improve product adoption on web—without a developer).

Development Environment: IntelliJ IDEA, DataGrip, Linux, Git, MySQL, Docker,Douyin Cloud.

Technology of application: koa.js, Gulu.js, Sequelize, Jest.

- According to the requirements of guided tours for users in the company, we provide a self-service guide configuration service platform for projects such as Douyin e-commerce, Dou+, Juzhang Wenwen, etc.
- Work as a backend developer, building **RESTful APIs** with **koa.js**、**TypeScript** and **MySQL**, while also responsible for database design and maintenance.

2019/06-2020/12　iFLYTEK, as a Software Engineer.

Project 4: Service Platform for College Entrance Examination.

Development Environment：VScode, Git, Chorme, Linux.

Technology of application：Vue, Vuex, Less, Webpack, iView, Element, npm, Node, TypeScript, ESLint, husky, gulp.js, Lodash.

- Analyze business requirements, communicate with other teams, cooperate to develop, and propose appropriate suggestions for product interaction experience.
- Both use **Vue** as the core technical stack, based on the **Vue-Cli** scaffold, combined with iView, Element and other UI frameworks for business development, and use **Webpack** for packaging and build.
- Optimized **Webpack** build time, shortened the build time of the course scheduling system from **2 minutes to 30 seconds**.

New Gaokao Component Library：A set of 23 business components based on Vue, avoiding reinventing the wheel and improving efficiency.

- Be responsible for and use **Webpack 4.0** to build the component library, package with module specifications of **UMD / CommonJS / ES Module.**
- Combine **Vue's async components** and **Webpack code splitting** to implement **on-demand importing** of the component library.

- Use **Gulp.js** to package CSS to implement on-demand CSS importing.
- Be responsible for maintaining common styles, extracting **Less** style variables, and implementing theme color custom configuration.

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自我介绍（视频版）

工作经历（视频版）

教育经历

2014/09-2018/06　Bachelor in Engineering工程学士

北方工业大学 机械与材料工程学院

专业: 机械设计、制造和自动化。

2018/06-2019/03　软件工程培训。

个人技能

汉语能力:　高　　英语语言:　中

程序设计语言: JavaScript, TypeScript, C, Python, Java.

Web: React, Vue, Node.js, Next.js, koa, Express.js, HTML, CSS, Ant Design, Element UI.

开发技术: Webpack, Gulp.js, Rollup.js, Babel.js, npm, yarn, pnpm, Lodash, JQuery, Sequelize, TypeORM, MyBatis, Docker, Nginx, MySQL, Redis, Git.

工作经验

2020/12-至今　抖音集团，开发项目负责人

项目 1、2: 电子牵(第三方电子合同平台), 乐小活(自由职业者找工平台)

开发环境: VScode, WebStorm, Git, Chorme, Linux, Douyin Cloud.

应用技术: React, React Hooks, SaaS, Webpack, qiankun, Umi, Recoil, FC & Hooks, Rush, ByDesign, Taro, pnmp, Node.js, Next.js, Gulu.js.

- 从零开始设计和开发复杂的 web 应用，包括项目设置、持续集成和环境部署，到完全功能的应用。
- PC 和 手机端，均以 **React** 作为核心技术栈。使用的技术包括 React、React Hooks、hox、ByDesign React 和 qiankun 等。
- 在手机端，使用 **Taro** 支持小程序和 H5 页面，通过单一代码库跨多个平台实现代码复用。
- 热爱分享。曾分享正则表达式、Shell脚本以及业务流程，被同事评价为“最有用的业务分享”。

前端开发过程的进化：使用物料包、引入微前端、迁移到 monorepo。

- **物料包**
  - 大量可重复使用的代码片段在多个项目中复制，很难用统一的方式管理升级。
  - 使用了 **lerna** 和 **dumi** 来建立 PC 和移动端的物料包，解决了重复编写代码和管理困难的问题。设计系统不仅包含组件库，还包含所有可复用的代码，如钩子函数、utils、CSS样式等。
- **微前端**
  - 随着时间的推移，由团队维护的前端项目变得越来越庞大且难以维护，成为**“巨石应用”**。
  - 使用 **qiankun** 微前端架构，将项目拆分为相互独立的不同模块，每个模块有其自己的 Git 仓库。
- **Migrating to Monorepo**
  - 随着团队采用越来越多的微前端，项目中的 Git 仓库数量不断增长,使开发变得更加困难。
  - 使用 **Rush.js** 进行聚合管理，把不同的 Git 仓库引入到一个代码库中。

Project 3：Follew Me(让产品运营自己配置用户引导，解放研发)

开发环境: IntelliJ IDEA, DataGrip, Linux, Git, MySQL, Docker,Douyin Cloud.

应用技术: koa.js, Gulu.js, Sequelize, Jest.

- 根据公司用户内部的需要，为抖音电商、抖+、巨量问问等项目提供自助配置导览服务。
- 担任后端开发者，使用 **koa.js、TypeScript 和 MySQL** 构建 RESTful APIs，同时也负责数据库设计和维护。

2019/06-2020/12　科大讯飞，软件开发工程师

Project 4：新高考服务平台

开发环境：VScode, Git, Chorme, Linux.

开发环境：Vue, Vuex, Less, Webpack, iView, Element, npm, Node, TypeScript, ESLint, husky, gulp.js, Lodash.

- 分析业务需求，同合肥、武汉的团队相互沟通，合作开发，同时给产品交互体验提出合适的建议。
- 均以 **Vue** 为核心技术栈，基于 **Vue-Cli** 脚手架，配合 **iView**、**Element** 等 UI 框架进行业务开发，并使用 **Webpack** 完成打包构建。
- **优化 Webpack 构建速度**，智能排课构建速度从 2 分钟缩短至 30 秒。

新高考组件库：一套基于 Vue 的业务组件库，共计 23 个，避免重复造轮子，提高效率。

- 负责并使用 **Webpack 4.0** 进行组件库的搭建，采用 **UMD / Common JS / ES Module** 的模块化规范打包。
- 结合 Vue 的**异步组件**和 Webpack 的**代码分割**，实现组件库的**按需引入**。
- 使用 **gulp.js** 打包 CSS，实现 CSS 的按需引入。
- 负责公共样式的维护，抽离 Less 样式变量，实现主题色自定义配置。