Kexi Dang

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EDUCATION

Rice University 2018.7 - 2019.12
- Master of Computer Science, GPA 4.0/4.0
- TA for Web development course (React) in Spring 2019 and Fall 2019

Beijing University of Technology 2010.9 - 2014.7
- Bachelor of Engineering - Computer Science
- Key Coursework: Programming Language, Data structures and Algorithms, Discrete mathematics, Operating System, Computer Network, Software Engineering, Compiling Principle
- GPA: 3.84 / 4.0

PROFESSIONAL EXPERIENCE

XuetangX—Rain Classroom, Senior Front-end Engineer, Oct 2021 - Present

- Participated in the development of the teaching evaluation system, designing **questionnaire-related data structures** to facilitate data transfer and storage in both front-end and back-end.
- Led the development of new teacher and student-side classroom reports, a major project requiring extensive **communication with product, backend, and testing teams**. Proactively listed modification points for each feature during testing. Handled compatibility for the main version on mobile WeChat, formulated downgrade strategies, and ensured user experience.
- Spearheaded the adoption of **Electron + Vite + Vue** tech stack to build the Teaching Command Center client project, establishing development standards, log collection, and deployment processes. Designed and implemented a **custom component library**, supporting theme color customization, improving code reuse and development efficiency. Built **CI/CD pipeline** supporting cross-environment packaging, significantly enhancing development and release efficiency.
- Established a new **AI Course** frontend project integrated with existing business systems using **iframe** technology. Implemented solutions for reflecting iframe internal routing changes in browser address bar and passing complete URLs during page refreshes. Implemented AI dialogue using an SSE-based approach, optimizing streaming response display for enhanced user experience.
- Managed the front-end projects upgrade to **Vue 2.7**, addressing issues with Mixins such as naming conflicts and difficulty in tracing property sources. Use **Composition API** to improve code reusability, establishing best practices for subsequent projects.
- Progressively optimized Rain Classroom PC page load speeds and static resource loading. Through build and packaging analysis, modules lazy loading, component refactoring, and internationalization optimization, **reduced JS static resource size by one-third** for main pages, improving both CDN storage efficiency and user experience.
- Transitioned from Webpack to Rust-based Rspack for build processes in a large Vue multi-page project, **reducing build time from 137s (Webpack) to 42s (Rspack)**.

Schlumberger, Full-stack Software Engineer, Feb 2020 - Aug 2021

- Developed a well trajectory project based on Angular, including modules for graphical visualization, automated calculations, and tabular data (Angular, RxJs, NgRx).
- Contributed to the GAIA GISMap project, responsible for full-stack development using NestJS and Angular tech stack. This involved designing and implementing RESTful API interfaces, map rendering, geographic data visualization, and interactive markers.
- Set up front-end unit testing and E2E testing, defined testing standards, and integrated the testing phase into the Azure DevOps CI/CD pipeline. Used Jasmine for Unit test and Playwright for E2E test.
- Optimized page performance by implementing techniques such as lazy loading, handling static resources, and replacing image formats, aiming to reduce FCP and LCP times.

Listed below are the work experiences prior to pursuing a master's degree in the United States in 2018.

XuetangX—Rain Classroom, Front-end Engineer
- Built a Mini-program(named Rain Classroom) in WeChat, a tool for better teaching and learning. The active users are more than 2 million people among 20+ thousand classes used in Tsinghua University.
- Implemented the front-end functionality by using HTML5, SASS, JavaScript, AJAX (Fetch API), routing function by Node.js, real-time communication by WebSocket, processing multiple tasks by Gulp.
- Designed RESTful APIs with other colleagues in the back-end group.

Baidu Online Network Technology (Beijing) Co.,Ltd, Front-end Engineer

- Built the SP A page of visualization of English knowledge graph using React, ECharts, Service Worker (PWA) and dealing with CORS.
- Constructed new Web platform for data collection and diagnosis. We manage the click rates of advertisements in Baidu Wenku by using the platform.
- Involved in Baidu's FIS (Front-end Integrated Solution) to further understand front-end engineering, which can define development rules, manage static resources, build a scaffold, test codes, launch and deploy codes, etc.

Beijing Lianjia Sci & Tech Co.Ltd, Front-end Engineer

- Used PHP Smarty template, Less, requireJS to modularize the codes and have better cooperation with team members both front-end and back-end.
- Built a recruitment website which users can have access to the functions of the homepage, job-list page, job details and Lianjia's profile in both PC and mobile devices.
- Achieved functions of house type images, users reviews, house type introduction, building details, and converted these functions into components by using module pattern and shared with other colleagues.