

# 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
  - GPA: 3.84 / 4.0
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## 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**, incorporating RxJs and NgRx for graphical visualization, automated calculations, and tabular data modules.

- 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**.
- Leveraged spare time to develop the company's internal training project page using **React**. Collaborated closely with stakeholders to gather requirements, ensured the platform integrated seamless content management features to enhance overall user experience and efficiency.

*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.