

# 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
- Keep learning from Twitter / Github / Blog

### **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
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## PROFESSIONAL EXPERIENCE

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

- Developed and maintained features such as web-based teaching logs/learning logs, subjective question grading, PDF annotations, and personal profile in the Rain Classroom web application.
- Developed the H5 version of the Rain Classroom's class reporting feature, which includes functionalities such as displaying lesson data, student performance, replays, timelines, exercise statistics, and interactions.
- Participated in the development of the Rain Classroom desktop application, involving functionalities like course scheduling, directing, and live streaming.
- Led the front-end development of the Teaching Command Center project using Electron+Vite+Vue, responsible for tech stack selection, establishing coding standards, customizing component libraries, and setting up CI/CD pipeline to support cross-environment packaging.
- Led the upgrade of the Vue-based front-end project to version 2.7, at the same time, upgrading Webpack, NodeJS, and transitioning from Node-Sass to Sass.

### **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, Nov 2017 - Jun 2018

- 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, 2017

- 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, 2016

- 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.