

# Lee Ning

Senior Frontend Engineer Beijing

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Experience	5 years	Education	Bachelor of Psychology Beijing Forestry University (211)

## WORK EXPERIENCE

Senior Frontend Engineer VPHOTO 2018.11-2021.6

- Responsible for the front-end part of the picture live platform, participated in the development and maintenance of major projects, independently refactored and optimized projects in the later stage.
- The cumulative UVs on the platform exceeded 50 millions, and the projects provided live services for many activities, such as:
  - 2020 China International Import Expo Nominated photo and video service supplier
  - 2020 China International Fair for Trade in Services Official picture live platform
  - 2020 ChinaJoy Official cloud video partner

Frontend Engineer 凡卡互动 2015.7-2018.3

- After self-learning programming without any experience, I got this job, building websites for our clients independently.
- When our company had no backend engineers temporarily, I taught myself PHP and MySQL to maintain existing websites.

## PROJECTS

云相册 Description: picture live terminal display Technologies Used: JavaScript + Vue.js + HTML5 + CSS3 Duration: 2019.2-2021.6

Control complexity	<ol style="list-style-type: none"><li>The rapid functional iterations in the early stage led to internal logic confusion. After that, the cost of each iteration increased significantly, and bugs were not easy to fix. Among them, there were two modules whose main .vue files exceed 3000 lines, with serious internal data coupling and poor readability.</li><li>To solve this problem, by learning refactoring and combining the ideas of design psychology, I sorted out the refactoring system of <b>5 top-level design principles</b> and <b>9 middle-level design rules</b>, systematically integrated common refactoring methods and design patterns from the bottom up; (see <a href="https://bit.ly/36m98LB">https://bit.ly/36m98LB</a>)</li><li>Using this system, I refactored the project from different granularities, reduced the complexity of the program without significantly affecting the performance; two modules that were too large were also split into multiple submodules with no more than 300 lines, by optimizing the data dependencies of components at all levels;</li><li>These refactorings effectively reduced the cost of understanding, cost of maintenance, and the number of bugs. New colleagues could get familiar with the project more quickly.</li></ol>
Decoupling and reuse	<ol style="list-style-type: none"><li>The four major modules in the project were originally only used for the current project. As the business progressed, it was found that they were worth reusing in other projects;</li><li>However, the four modules were highly coupled with the current project, many parts directly used and modified the global data, and the modules also requested backend data independently;</li><li>On the premise of operating normally of the current project, I changed all the parts which directly use external data into obtaining data through Vue component props, encapsulated modifications of data as Vue events; requesting backend data was also changed to use component props;</li><li>After decoupling, three of these modules were reused in other projects of our team, and one of them was reused in the project of another team.</li></ol>

企业影像库 Description: enterprise image data management Technologies Used: JavaScript + Vue.js + HTML5 + CSS3 Duration: 2020.7-2021.6

Compatible with multiple environments	<ol style="list-style-type: none"><li>Android and iOS have different responses and display details for some interactions and styles in the WeChat environment, and even different versions of iOS are different in some cases;</li><li>Since there is no official document, I could only collect scattered information, compared and investigated in different devices, summarized and archived all these problems, and encapsulated modules and CSS which were compatible in different environments.</li><li>Later, when colleagues encountered similar problems, they could first query my document and directly use the modules and CSS I encapsulated.</li></ol>
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## SKILLS (study notes: <https://github.com/samoyi/note/tree/master/Theories>)

<b>Programming languages</b>	<ul style="list-style-type: none"><li>• JavaScript: Deep understanding of the principles, proficient in using ES5+</li><li>• C: Comprehensive understanding of concepts, skilled at using</li></ul>
<b>Frameworks</b>	<ul style="list-style-type: none"><li>• Vue.js: Understand principles and source code deeply</li><li>• React: Experience in using React in two business applications</li></ul>
<b>Refactoring and Design</b>	Good understanding of code refactoring and design principles
<b>Algorithms and data structures</b>	Ability to implement common algorithms and data structures in C.
<b>Networking</b>	Familiar with HTTP and networking fundamentals
<b>English</b>	Ability to read English textbooks and articles fluently

## CAREER PLANNING<sub>(three-year)</sub>

- Continue to study code refactoring and program design, and apply them to work
- Continue to study algorithms in spare time; learn linear algebra, discrete mathematics, and probability theory.

## PERSONAL SUMMARY

- Love most sciences including computer science
- Interested in the design thinking behind various types of designs
- Interested in logical thinking, critical thinking and metacognition