

Haixiang Yan

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EDUCATION

- **University of California, Irvine** Irvine, CA
 - M.S. Networked System, GPA: 3.49 09/2018 - 03/2020
 - Courses: Information Retrieval, Machine Learning, Graph Algorithm, Network Security, Networking Lab
- **Northeastern University** Shenyang, China
 - B.S. Engineering in Software Engineering, GPA: 3.6 10/2014 - 06/2018
 - Courses: Algorithm, Data Structure, Computer Architecture, Computer Network, Software Engineering

SKILLS

- **Frontend:** Vue.js, React.js, TypeScript, ES6, Sass, HTML5, CSS3, Webpack
- **Backend:** Java, Servlet, JSP, Python, MySQL
- **Test:** Jest, Mocha, Sinon, Chai, Karma, Travis CI, Puppeteer

INTERNSHIP

- **DJI (Frontend Developer)** 06/2019 - 09/2019
 - Lead front-end web development for the LAANC project using **Vue.js (Vuex, Vue Router)** and **Mapbox**
 - Designed and implemented 40% **RESTful** and **GraphQL** endpoints based on FAA test documents
 - Designed UI components and web page layouts, and used **Sass** to migrate UI library from Buefy UI to Element UI
 - Wrote **unit tests** and **integration tests** with **Jest** and **Puppeteer**. 73% test coverage of UI components
- **Brix (Research Project)** 03/2019 - 06/2019
 - Developed an Online-Coding system with **React.js (Redux, React Router)** and **ACE Editor**
 - Followed web standard and used **HTML5, CSS3** and **JavaScript** to develop Admin database system
 - Used **Ant Design** and **Sass** to design website layout and component styles

PROJECTS

- **Search Engine** 09/2019 - 12/2020
(<https://github.com/Haixiang6123/mini-search-engine>)
 - Developed a Search Engine based on Log-structured merge method and **Java**
 - Used **Page Rank** and *TF-IDF ranking to score search results
 - Applied **Dynamic Programming algorithm** for Text processing and Tokenization
 - Implemented a compressor based on delta encoding and variable-length encoding to improve performance
- **Overwatch UI (Stars: 340+, NPM Downloads: 12k+)** 03/2019 - 07/2019
(<https://haixiang6123.github.io/overwatch-ui-doc/#/>)
 - Developed a UI library with **Vue.js** and **Webpack** based on Overwatch UI style
 - Implemented components with Vue.js features, such as **slot, transition, watch properties**
 - Applied Vue.js features, such as **slot, transition, watch properties** to design and implement component
 - Used CSS preprocessor **Sass** to customize component styles and define Mixins and sass functions to reuse 30% styles
 - Wrote unit tests with **Chai, Sinon, Mocha** and set up CI environment with **Travis CI, Karma**. 80% test coverage.
- **Code Block Beautifier (Stars: 100+, Users: 600+)** 01/2019 - 03/2019
(<https://github.com/Haixiang6123/codeblock-beautifier>)
 - Built a **Chrome Extension** for highlighting code blocks of Medium articles
 - Applied **DFS algorithm** to combine continuous code blocks to one code block
 - Used Observer Pattern to dispatch and trigger events with **JavaScript (ES6)**, like updating theme and language preference
 - Support 80+ coding theme, 20+ languages, also compatible with StackOverflow, MDN and FreeCodeCamp
- **Movie Gallery System** 05/2018 - 08/2018
 - Developed a movie gallery system by using **React.js, Redux** and **React Router**
 - Designed 90% components with **styled-component** and **Sass**
 - Implemented **RESTful** API and micro service with **Java Servlet** and **JDBC**
 - Deployed system on **AWS** and **Google Cloud Service** and set up **Load Balance** to lower 50% server pressure