Haixiang Yan

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EDUCATION

- **University of California, Irvine**   **Irvine, CA**
  - M.S. Networked System, GPA: 3.3   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** and **Mapbox**.
  - Designed and implemented **RESTful** and **GraphQL** endpoints based on FAA test documents
  - Worked with Product Designers to implement and design the UI components of LAANC and used **Sass** to migrate UI library from Buefy to Element
  - Wrote **unit test** and **integration test** with **Jest** and **Puppeteer**
  - **Optimized web performance** by using **ETag based HTTP caching** to fetch map features and using **Lazy load** to generate new page
- **Brix (Research Project)**   **03/2019 - 06/2019**
  - Developed an Online-Coding system with **React.js** and **ACE Editor**
  - Developed a manage system with **HTML**, **CSS** and **JavaScript** to show tables of backend database
  - Used **Ant Design** and **Sass** to design website layout and component styles

PROJECTS

- **Mini Search Engine**   **04/2019**
  - Developed a Search Engine with **Java** based on **Page Ranking** and **TF-IDF Ranking**
  - Optimized process of tokenizing keywords by using **Dynamic Programming** algorithm
  - Implemented **LSM-based** file storage to improve performance of reading bytes from segments
  - Developed a **Delta Variable-length** Compressor to compress files
- **Overwatch UI (Stars: 330+, NPM Downloads: 11k+)**   **03/2019**
  (https://haixiang6123.github.io/overwatch-ui-doc/#/)
  - Developed a UI library with **Vue.js** and **Webpack** based on Overwatch UI style
  - 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** to reuse styles
  - Wrote unit tests with **Chai, Sinon, Mocha** and set up CI environment with **Travis CI, Karma**
- **Code Block Beautifier (Stars: 95+, Users: 500+)**   **01/2019**
  (https://github.com/Haixiang6123/codeblock-beautifier)
  - Built a **Chrome Extension** for highlighting code blocks of Medium articles to improve readability
  - Applied **DFS algorithm** to combine continuous "pre" elements as one "pre" element
  - Used Observer Pattern to dispatch and trigger events with **JavaScript (ES6)**, like updating theme and language preference
- **Guitar Tabs Editor (Stars: 29)**   **03/2018**
  (https://haixiang6123.github.io/guitar-editor/#/)
  - Designed a guitar tabs editor with **React.js** for users to compose guitar tabs by writing formatted texts
  - Formatted guitar tabs size by using **SVG** to display guitar chords
  - Used **React Router** to manage web pages and stored global data in **Redux**