Dongkai Xie

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Full-stack Software Engineer | Seattle, WA

EDUCATION

University of Washington, Seattle (GPA: 3.90 / 4.00) — Seattle, WA
B.S. Informatics (Software Engineering and Information Architecture) — Expected graduation: June 2023
Relevant Coursework:

- Data Structures and Algorithms
- Database Management
- Full-stack App Development
- User-Centered Software Design

SKILL

Programming: Java, JavaScript, HTML5, CSS3 (advanced); SQL, Python, Bash (intermediate); C, C++, Kotlin (basic)
Frameworks/Libraries: Spring Boot, Node.js, React.js, Vue.js, D3.js, Anime.js, TensorFlow
Tools: SQLite, MySQL, Docker, Jenkins CI, Firebase, Git, Cloud Computing (AWS, Azure, Google Cloud), Linux

EMPLOYMENT

Organization of Hua Classmates — Seattle, WA
Software Engineer (Full-stack Development) — June 2020 – Present

- Designed and developed a course evaluation web system to allow students in UW find and write course and instructor evaluations to assist their course planning in college.
- Refactored search page **React** Component to display results by parsing URL query parameters, which upgraded site navigation experience, improved error handling, and reduced the workload of other developers.
- Refactored **Node.js** backend server to handle complex course search queries and prevent **SQL** injections.

University of Washington — Seattle, WA
Software Engineer (Full-stack Development) — September 2021 – Present

- Used **Mozilla Rally/WebScience** framework to develop a Firefox browser extension that captures participant's YouTube visiting behaviors for a research project regarding misinformation in social media platforms.
- Assisted Full-stack development of fact-checking website using **Node.js** framework and **MySQL**.

Meituan Inc., a $18B revenue leading retail service platform in China, HKSE public listed — Beijing, China
Software Engineer (Web UI Development) (intern) — July 2021 – September 2021

- Designed and developed an internal **Vue.js** website that demonstrates the company's Enhanced Hybrid framework to simplify learning curve to use it for internal non-tech colleagues.
- Utilized **Anime.js** and **D3.js** to implement interactive and animated demonstrations of this mobile Front-end framework to enhance site readability. Deployed the website with **Jenkins CI**.
- Achieved recognition from department and leader on the innovative approach to trigger fast learning possibility on the framework and this demo web app was eventually included in the official documentation.

University of Washington — Seattle, WA
Software Engineer (Web UI Development) — January 2021 – June 2021

- Designed a brand-new web prototype for Community Disaster Resilience App to allow non-technical users easily to input their recovery timeline prediction after proposed natural disasters for research purposes.
- Optimized UI labeling and user flow for new designers on Design Awareness App, enabling them to quickly document their design patterns, lead researcher accepts a large portion of my proposed UX improvements.

PROJECT

Online Facial Recognition (Spring Boot, TensorFlow, Bootstrap) — December 2021 – Present

- Developed a facial recognition authentication website using **Bootstrap** framework, allowing users log-in their account by taking selfies and providing a straightforward user experience.
- Utilized **TensorFlow** machine learning library to perform facial recognition on **Spring Boot** backend servers.

AeroView Website (React, Bootstrap, D3.js, Firebase) — September 2020 – March 2021

- Designed and coded a **React**-based website that presents airplane's technical specification data for aerospace enthusiasts. Users can visit it to browse, filter, and compare airplane data that are parsed via **D3.js** framework.