

Personal Statement

Since senior high school, I have started taking online courses on the online platform Coursera and Edx. In the first semester of my senior year, I came across a volunteer association named Global Translation Community in the Coursera, aiming to translate subtitle of online courses on the Coursera and was fortunate to become a member of it. In this community, the translation tasks were assigned by an online software Quip, a collaborative document sharing software, allowing members to choose an excerpt to translate it within a specific time. Meanwhile, I also gained access to a web application Transifix, which could track the translation progress, show possible Chinese translation references and review progress. The two software apps were easy to operate and made the translation more effective and easier. Witnessing the software brought tremendous convenience to people's work, I made up my mind to learn software development.

My four-year undergraduate study at North China Electric Power University cultivated my learning ability and independent thinking ability to a large extent, helping me a lot to learn computer science technology, programming skills and algorithms by myself. Since college, I have invested a tremendous amount of time in taking a wide range of online courses on the various platforms, including the FreeCodeCamp, Udacity and Coursera. The first platform I contacted was the FreeCodeCamp, a website to help people learn how to code for free. Through this website, I took a great many of front-end introduction lessons and accomplished relevant projects covering the page layout, information acquisition through the interface and displaying and complex JS interaction. Completing the fundamental courses and projects on front-end development, I started a new learning journey in the Udacity, which put more emphasis on practice under the guidance of teachers from Google and Facebook. Up to now, I have completed the front-end and full stack web development Nanodegree program and in Udacity and accomplished projects on web development, which enhanced my HTML, CSS and Node.js skills, objected-oriented programming and the knowledge of the databases. Meanwhile, I am also learning algorithms and data structure in the Coursera and MOOC platform, in order to passing the PAT exam, successfully completing some courses such as the Divide and Conquer, Sorting and Searching, Randomized Algorithms course and Graph Search, Shortest Paths, and Data Structures. I believe all of the above learning experience will benefit me a lot to pursue my postgraduate study.

In view of my outstanding performance during the internship, I continue my work in the Bitmain Corporate as a web developer in the 7th Department of the Cloud Software after graduation. During my internship, I mainly used the jQuery and had to control the DOM element manually in a Jira project. Soon after I worked as a full-time employee, the front and back end separation was implemented. The most fulfilling working experience was the redesign of the previous projects in the official website using the single page framework, including all business logic. Our department selected the Vue.js and its ecosystem as front-end framework and using JAVA as server side. Overcoming some technical difficulties such as single sign-on and single page deployment, we developed the project successfully. After finish the PC page project, I was required to complete all the mobile page development within a month starting from zero, which was not an easy job. Facing this challenge, I conducted a lot of JavaScript exercises in the previous Jira project, laying a solid foundation in JavaScript. With the established confidence, the overall project was reconstructed smoothly within a limited time. In this position, I witnessed the fast development of web development. The development efficiency was improved dramatically with the data-driven control of the page and componentized and engineered development interface. Now, the TypeScript is quite welcome for page rendering, which is also a brand new field. Witnessing the fast development of web development made me further realize the necessity of continuing my education.

Meanwhile, working as a web developer in the Bitmain Corporate confirmed my enthusiasm for computer science. I truly enjoyed the challenge of learning new skills, writing code and solving bugs, which brought me a strong sense of achievement. Now, I feel fortunate to find the career that I truly love and have determined to pursue a master degree in computer science though I know the challenges and difficulties will

inevitably emerge in this road. The working experience made me aware the back-end development is closer to the core business of the company, and I naturally desire to learn more about back-end development apart from front-end skills and knowledge. And it is my goal to be a full-stack engineer within three years possessing the capability of planning, designing and implementing a whole project independently both the front and back end. As for my long-term objectives, I envision creating efficient browser-based applications like Quip and Transfix and helping the future company realize the update and reconstruction of software technology. My acquisition of programming is largely credited to the Internet, so now I desire to contribute to the prosperity of the Internet community.