

Zeng Fu

Looking for **Software Engineer** Position for **New Grad**

Phone: (858)-999-6763 | Email: zengfu@uw.edu | Personal Website: zengfu.info | Location: Seattle, WA

EDUCATION

University of Washington

M.S. in Computer Science

Sept. 2019 - Dec. 2020

Cum. GPA: 3.8/4.0, Major GPA: 3.8/4.0

University of California San Diego

B.S. in Mathematics and Computer Science

Sept. 2015 - June 2019

Cum. GPA: 3.4/4.0, Major GPA: 3.7/4.0

SKILLS

Programming Language: Java, Python, C/C++, C#, Swift, SQL, HTML, CSS, JavaScript

Web Development: React, RESTful, SOAP, Spring Boot, Netty, Maven, JSON, XML

Tools: Git, Linux Kernel, AWS, Microsoft Azure, Google Cloud, MATLAB, MySQL, ASP.NET

EXPERIENCE

StubHub

June. 2020 - Sept. 2020 (Revoked due to COVID-19)

Software Engineer Intern

- Contacted my supervisor to learn what I will do, so I developed my own APP (Spin My University) with the technical skills that I should've applied during this internship (details are listed in "Projects").

University of Washington

Jan.2020 - Present (every quarter)

Teaching Assistant - Data Structures, Design and Analysis Algorithms

- Helped more than 50 students to solve their course problems and encouraged them to collaborate by assigning group problems.
- Organized 2 discussion sessions every week to analyze lecture materials and designed 8 pages worksheets for students' practice
- Communicated with professors and other TAs every week to learn students' statuses and prepare next week's discussion contents.

Chinese Computer Community (<https://ucsdtriplec.org/>)

Apr. 2019 - Aug. 2019

Software Engineer

- Updated outdated and repeated codes, which made the website run 2 times faster.
- Refactored codes to generalize commonly used templates which can save more than 50% development time in the future.
- Improved the visuality and readability of the website, which made the website more mobile-friendly.
- Built pages to collect users' feedback and provided visualization of user data.
- Encrypted information in the database and added authorization for administrators to analyze and control user data.

PROJECTS

Spin My University (App download link: <https://github.com/xZengFux/Spin-My-University>)

Apr. 2020 - July 2020

(Java, Spring Boot, Netty, Nginx, MyBatis, FastDFS, AWS EC2/RDS)

A platform with social media and a rating system for professors. Students can share their opinions on professors whose courses they took before and communicate with others to gain better learning experience for the future study.

- Deployed the back-end server on AWS EC2, which is connected to my 4NF normalized tables on AWS RDS.
- Established Netty WebSocket to listen to heartbeat to keep clients alive, which guaranteed the communications are connected.
- Developed MUI framework and H5 to build front end and made it compatible with different screen sizes.
- Combined Nginx and FastDFS to store media files and guaranteed the performance of reading these media files frequently.
- Integrated all back-end services (RESTful, Netty and MyBatis) within Spring Boot to avoid more than 100 jar packages' installation.
- Tested this application with 200 users' requests at the same time and revised some front-end features after collecting test feedbacks.

Web Services For Parking Structures (GitHub: <https://github.com/xZengFux/parking-structure>)

Sept. 2019 - Dec. 2019

(C#, Java, ASP.NET, RESTful, SOAP, Third-party APIs, Azure DB, HTML, CSS, JavaScript)

Web services which help drivers to check cars' status, pay online, and use third-party services online (Google map, gas price, etc.).

- Designed the Software Requirements Specification (SRS) to design architectures, which provided a clear schedule for 2 months.
- Created 9 Web Forms pages on ASP.NET with HTML and CSS, which can be easily tested directly on Visual Studio.
- Applied MVC framework to establish corresponding classes and built a C# server with SOAP services to manage Azure Database.
- Built a Java server with RESTful services that share data in different types and utilize more than 10 external third-party Web APIs.
- Made Java and C# servers communicable and compatible and set appropriate methods to detect errors between connections.

ACTIVITIES

Chinese Union (501(c)(3) – Non-Profit Organization) (<http://www.chineseunion.org/>)

Mar. 2017 - Mar. 2019

Vice President in Headquarter (San Diego)

- Administered the largest NPO based on Chinese International Students in California with 200+ officers, and 4000+ members.
- Planned and executed large-scale career and social events throughout the San Diego, Irvine, and Los Angeles areas.
- Managed my own team and arranged orientations for up to 1000 new UCSD students in China every year.