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EDUCATION

UNIVERSITY OF WASHINGTON

MS IN COMPUTER SCIENCE

Jan 2021 | Seattle, WA Cum. GPA: 3.8 / 4.0 Major GPA: 3.8 / 4.0

UNIVERSITY OF CALIFORNIA SAN DIEGO

BS IN MATHEMATICS -COMPUTER SCIENCE June 2019 | San Diego, CA Cum. GPA: 3.4 / 4.0 Major. GPA: 3.7 / 4.0

LINKS

GitHub://xZengFux LinkedIn://ZengFu Facebook://ZengFu

COURSEWORK

GRADUATE

Advanced Algorithms
Services Computing
Applied Distributed Computing
Internet Of Things
Computer Networks

UNDERGRADUATE

Advanced Data Structures
Basic Data Structures and
Object-Oriented Design
Design and Analysis of Algorithms
Theory of Computability
Operating Systems
Computer Organization and
Systems Programming
Software Tools and Techniques

SKILLS

TECHNICAL SKILLS

Java • C • C++ • C# • Python HTML • CSS • JavaScript • React RESTful • SOAP • Web Services Distributed System • AWS • SQL ASP.NET • Intellij • JSON • XML

SOFT SKILLS

Bilingual Communication (English, Chinese)
Team Working • Leadership
Decision Making • Public Speaking

TECHNICAL PROJECTS

WEB SERVICES FOR PARKING STRUCTURES

Sept. 2019 - Dec. 2019

- Wrote the **Software Requirements Specification** (SRS) to design architectures.
- Used ASP.NET (C#) to create Web Forms with HTML and CSS for Client Side.
- Applied Model-View-Controller (MVC) framework to build SOAP Web Services to process inputs from users and CRUD RESTful Services using ASP.NET (C#) to manage users' and parking information in Azure Database.
- Built a Java Server which contains RESTful services that shares data in different types, like JSON, XML, HTTP Response to use external third-party Web APIs.
- Made Java and C# compatible and set appropriate methods to detect errors.
- The whole system can help users to **check cars' status** (parking time, parking fee), **pay online**, **manage their accounts**, and **use third-party services** online.

OFFICIAL WEBSITE OF CHINESE COMPUTER COMMUNITY

Apr. 2019 - Aug. 2019

- Modified and deleted most previous outdated or repeated HTML, CSS and JavaScript codes (more than 5000 lines) to show this organization's information. These modifications made the website run 2 times faster and more fluent and fancier than before for opening a new page, viewed photos.
- Improved the **visuality and readability** of the website when using **mobile client** and fixed bugs when the website is opened on different types of cell phones.
- Built the **feedback** page and new **administrators' entrance** using HTML, CSS, JavaScript (more than **2500** lines) and **MySQL** server to store users' submitted information in Database and verify authorization for administrators.
- Encrypted the data in the database in case of personal information disclosure.
- Used **GitHub** to check **team works** and track code changes for **version control**.
- Designed web templates which will **save at least 10% time** if we want to add similar parts to this website in the future.

LEXICON Jan.2017 - March.2017

- Established an adapted data structure, **Huffman Code Tree**, achieved by the Huffman Algorithm to store plenty and repeat information.
- This Java application (more than 700 lines) can compress (encode and decode) all types of binary files, and the compress rate, ranging from 66% to even more than 100%, depends on the original distribution of the characters.

6 DEGREES (OF SEPARATION) Jan.2017 - March.2017

- Used the data structure **graph**, **unordered map**, inner class to establish connected graphs containing given actors and their movies
- Applied **Shortest Path Faster Algorithm** which is optimized from **Bellman-Ford algorithm** to **find the shortest path** from a source or two requested nodes.
- Can be applied to large database to quickly **find the relationship** that users want to find.

WORKING EXPERIENCE

UNIVERSITY OF WASHINGTON

Course Facilitator (Teaching Assistant for Data Structures)
Jan 2020 – Current

Help undergraduate students to solve their problems and understand the lecture contents. Integrate review material with new material and promote sense of community and encourage communication.