Deirdre Wang

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EDUCATION

Northeastern University   Expected Graduation: May 2025
Master of Science in Computer Science   *Seattle, WA*
Coursework: Discrete Structures, Object-Oriented Design, Foundations of Software Engineering

Beijing Foreign Studies University   Sept. 2018 – June 2022
Bachelor of Arts in Albanian, Minor in Finance, GPA: 3.9/4.0   *Beijing, China*
Coursework: Data Structures, Introduction to Programming, Big Data Analysis, Calculus, Linear Algebra, Statistics

EXPERIENCE

Software Engineer Intern   Dec. 2022 – June 2023
DiDi Global   *Beijing, China*

- Increased the reusability of automated test cases and trustworthiness of industry codes by developing a scalable test case management platform for DiDi's QA, RD, and PMs with 1k users.
- Increased development speed by 20% by utilizing Flask as the main framework for the platform and enhanced API runtime performance by using Go.
- Streamlined the case review process and decreased its time cost by 30% by designing and implementing test case review functions using Python, Golang & MySQL.
- Increased manager's decision-making speed by creating APIs for calculating statistics to automatically run on 30K test cases daily with Crontab and visualizing data with Echarts.
- Implemented user-friendly webpages and interactive features for platform announcements, accounts management system, and case statistics charts using Vue.js & Element.
- Optimized SQL queries and loop codes, resulting in a 30% reduction in average runtime of slow APIs and a 20% decrease in average QPS of the database, significantly reducing server costs.
- Improved code reliability and reduced future maintenance costs by leveraging Postman for performance and API response testing.

PROJECTS

E-Eat | *An online platform for restaurants to sell their food more efficiently*   Nov. 2022 – Dec. 2022

- Today, some small restaurants still use handwriting to keep track of their stock and revenue. Therefore, I designed and implemented an online application for them to manage and sell products.
- Created MVC with Spring Boot and handled high concurrency using Redis.
- Integrated WeChat payment and implemented real-time user notification using WebSocket.
- Implemented webpage rendering and user interaction using FreeMarker & ModelAndView.

UniNav | *A website where students could find information about universities*   Oct. 2022 – Nov. 2022

- Nowadays, higher education has become more important. Therefore, I designed, implemented, and deployed a website where students could have easy access to information about world-renowned universities.
- Implemented user-friendly interface and interactivity using HTML, CSS, JavaScript, EJS & Bootstrap.
- Created RESTful APIs for university information editing, implemented user authentication and authorization using Passport & Session, and utilized MongoDB for scalable data storage.
- Integrated Mapbox for university navigation and cluster mapping.

TECHNICAL SKILLS

Languages: Python, Java, Golang, SQL, JavaScript, HTML/CSS
Frameworks: Flask, Spring Boot
Developer Tools: Git, VS Code, Linux, MySQL, MongoDB, Redis
Libraries: Request, Peewee, Websocket, Lombok, Viper, GORM, React, Vue