Luca Zhou

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Technical Skills

Languages: *Python, C/C++, Java, VBA*

Web: *HTML, CSS, JavaScript, jQuery, PHP, Node.js, Express, REST APIs*

Tools: *MySQL, MongoDB, Jira, Bootstrap, GitLab, GitHub, Bitbucket, UNIX*

Education

Honors Specialization in Computer Science, 2017 - 2021, University of Western Ontario
- *Dean's Honor List in the 2018 - 2019 and 2019 - 2020 academic year*

MySQL, Web Development Bootcamp, 2019, Udemy and LinkedIn Learning Courses

Data Analyst Nanodegree Program, 03/2020 - Present, Udacity Online Program

Experience

Back-end Developer Intern, 07/2019 - 08/2019, Guangzhou, China - *TRS Information Technology Co.*
- Coordinated with the requirements department to design, implement, operate and maintain **MySQL**.
- Wrote **Python** crawlers for data collection on more than ten websites including macroeconomic, meteorological, national and industry statistics. The target format included **API**, HTML, Excel, and PDF file.
- Typical libraries used: Request, BeautifulSoup, **Selenium**, Pandas, NumPy, Camelot, Xlrd and JSON.
- Combined Python with **MySQL** by using the library **PyMySQL** and stored the parsed data to the MySQL.
- Edited technical documents, explained the collected data and script, and used **GitLab** for version control.
- Edited the monitoring template in **Zabbix** to monitor server operation.

Projects

To Do List Web, 04/2020 - Present, *Personal Project* - `lucazhou.ca/todolist/`
- Performing **DOM** Manipulation using modern **jQuery**. Building a dynamic website using the **Node.js Express** framework, using **RESTful APIs** to provide smooth data manipulation. Combine Express with **MongoDB** using **Mongoose**. Allows the user to modify the **NoSQL** databases.

Web-based Medical System, 11/2019 - 12/2019, *Course Project* - `simulate-medical-system`
- Used **LAMP Stack** to create a web-based database application. Allowed end-users to make updates, insertions, deletions, and query a database through the website.
- Identified what to store and the relationships between the data. Created an **ER-diagram** for database design. Implemented the database on **MySQL** database management system.
- Designed the website using the **box model** concept. Built a responsive website using **Bootstrap 4** library.
- Used **PHP** to make a connection between front-end and back-end databases.

UNIX File System Simulator, 10/2019, *Course Project* - `github.com/chefZau`
- Implemented a **Unix**-like file system simulator using **C++.** The purpose is to rewrite selected **UNIX** file actions such as ls, rm, cp, cat, diff, and stat. Allows users to complete file operations using my customized commands within the program, which has the same effect as the original Unix commands.

Publish-subscribe System, 02/2019 - 04/2019 - *Group Project* - `github.com/chefZau`
- Worked in a group of 5, developed a simple Publish-subscribe System using **Java**.
- Used **UML** diagrams for expressing designs, implemented several **design patterns** including the Singleton, the State, the Strategy, the Proxy, and the Observer design patterns.
- Examined the stages of the software engineering process, including requirements gathering, specification, design, implementation, and testing.