Wu Guannan

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Technical Skills

Overview

Programming

0 LOC ⟶ 20000 LOC

C /C++ /Java

Python/C#

MATLAB /R
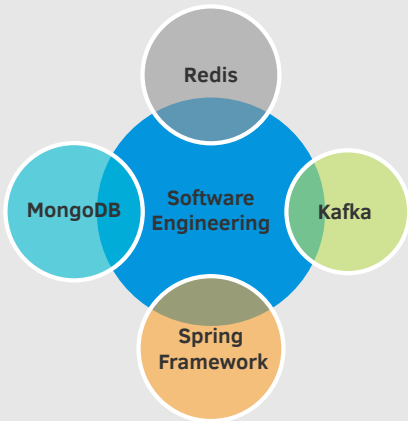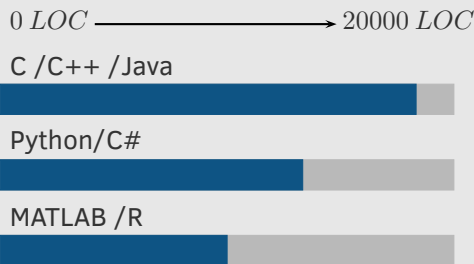
Education

**MComp. Computer Science
(GPA : 3.75 / 5)**
National University of Singapore
2021 - 2023 | Singapore

**BEng. Computer Science and Technology
(GPA : 3.61 / 4)**
Hebei University of Technology
2017 - 2021 | Tianjin, China

Experience

Apr, 2023-Now	**Java Engineer**	WA SUPERAPP Ltd., SG

- Spearheaded the development of a food delivery platform utilizing Spring Cloud and Redis; responsible for integrating Object Storage Service (OSS) API;
- Designed and implemented user-centric recommendation features leveraging user preferences, product tags, and community reviews;
- Utilized Prometheus for robust data visualization and event tracking; implemented AlertManager for efficient exception notification via SMS alerts;

Sep, 2020-Nov, 2020	**Visualization Engineer**	Chinasoft International Ltd., Tianjin

- Performed web crawling with Selenium, data cleansing with C++, and data analysis with MapReduce;
- Developed interactive HTML interfaces using ECharts and Spring Boot, focusing on user engagement and intuitive design;
- Implemented the visualization of BiliBili user behavior, analyzing video categories and duration, powered by a dynamically updated database for real-time insights.

Projects

Aug, 2022-Nov, 2022	**Web Application Engineer**	NUS

- Performed data cleaning on AIS data near Singapore and visualized animated trajectories of the ships on Google Map;
- Implemented MVC pattern and employed Flask as web application framework;
- Detected outlier trajectories using machine learning models.

Mar, 2022-Apr, 2022	**Front-end Developer**	NUS

- Implemented a real-time leaderboard application with Springboot + Mybatis + Thymeleaf framework;
- Web servers could automatically execute user SQL queries, and generate the leaderboard according to the running time;
- Obtained top 25% ranking for the project.

Mar, 2020-Apr, 2020	**Team Leader & Database Engineer**	Hebei UT

- Developed a mobile app prototype that includes a function allowing for transformation of uploaded images into text format;
- Applied approximate string matching to enhance search function capabilities;
- Implemented various indexes (i.e., grammar, terms, expressions and thoughts) to facilitate the grading of writing composition assignments;
- Registered a software copyright.

Awards

Sep, 2019	**China Collegiate Programming Contest**	Bronze Medal
May, 2019	**Hebei Collegiate Programming Contest**	Silver Medal
Apr, 2019	**China Collegiate Computing Contest, GPLT**	Silver Medal