徐辰洋

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EDUCATION

2018-2022 **Tongji University**

The School of Software Engineering

PROJECT & RESEARCH EXPERIENCE

- **2020.9-2021.6** **Intelligent anomaly detection of logs of complex online platforms**

Entered Prof.Du Qingfeng's Laboratory of Software School in Tongji University in September 2020 and participated in the team of log analysis and log anomaly detection.

Accomplished the reproduction of System Log Event Block Detection (SLEBD) framework independently and applied the framework to log anomaly detection in Month 2021.

Accomplished the reproduction of Logram algorithm independently and applied it to the online log parser in June 2021.

The SLEBD framework can identify groups of log messages that follow certain sequence but with variations, and explore these event blocks for event-based system behavior analysis and anomaly detection. Compared with the existing approaches that analyze system logs line by line, SLEBD is capable of characterizing system behavior and identifying intricate anomalies at a higher (i.e., event) level.

Github:https://github.com/XLab-Tongji/LogAnalysis/tree/shine_dev/anomalydetection

- **2020.6-2020.9** **Fault diagnosis system of open source software**

Entered the internship group of Prof.Jiang Jianhui of Software School of Tongji University to carry out the development of fault diagnosis system of open source software in June 2020 and concluded the topic succsessfully.

Logs usually record the action flow data of software during operation.Fault is injected into Kafka and its operating environment by modifying memory data, changing source logic value and changing instruction sequence. The fault diagnosis will be done through log and dynamic tracking, and fault location, type and other fault diagnosis results will be given.

When offline, record the entire compilation and operation of Kafka through logs. When a fault occurs, check the log content and make corresponding fault location. The accuracy of location is higher; On line, through dynamic tracking of the recorded information, periodically judge whether the system goes wrong. After detecting the fault, it can judge the type of fault at the same time. On this basis, refine the fault type and diagnose the specific fault location and cause of the system.

2021.3-2021.6 **The improvement project of Online Judge of Tongji University**

Launched the improvement project of Tongji University OJ(TJOJ) system in March 2021. At present, the website has been fully operational and has become the official platform of Tongji University Competition and will also be the platform of various programming competitions in Tongji University in the future. TJOJ:https://acm.tongji.edu.cn/

- **2020.3-2022.6** **Early-warning system for pressure ulcers based on data mining technology**

Apportioned the development of pre-warning system for pressure ulcers based on data mining technology as the project leader by Prof. Zhao qinpei of Software School of Tongji University. The system is mainly for paraplegic patients. In their daily life, bedsore is caused by sedentary, which is harmful to the health of patients.The bedsore can even become the cause of death. The project aims to send out pre alarm for pressure ulcers by real-time detection of patient surface pressure, crosscutting force and other data.

Personal Intention

I hope to participate in some research projects related to database, data mining,software testing and machine learning.