Yuliang Sun

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EDUCATION

BeiHang University, Beijing, China   Sep.2021 – Present

Third year undergraduate in Computer Science and Technology(CS)

 GPA 3.67/4.0, 87/100

SKILLS

- **Programming Languages**: Python, C, C++, Java, Verilog, JavaScript ,HTML/CSS, SQL
- **Frameworks**: Git, Flask

PROJECT EXPERIENCES

AirQA Civil Aviation Passenger Question and Answer System   Jan.2023 – Apr.2023

Data Preprocess   Advisor: Prof.Richong Zhang, Beihang University

- Constructed a data processing system so that it can classify the original messy data of the airlines and generate question-answer pairs.
- Used the template method and docT5query model to generate question and answer data for regular and irregular data respectively.
- Used a new model trained on the civil aviation data set based on RocketQA pre-training model(Baidu Inc.) to generate retrieval-style questions and answers.

A Compiler based on SysY   Sep.2023 – Dec.2023

Individual Project   Beihang Compilation Technology Course Project

Project Address: https://github.com/intrepidLi/BUAA_Compilers_2023

- Completed the compiler with Java to convert source code in SysY(a sub set of the C language) to LLVM IR intermediate code.
- System components: lexical analysis, syntax analysis, semantic analysis to generate abstract syntax tree (AST), intermediate code generation.
- Used automata theory to manually perform lexical analysis, and use recursive descent to perform syntactic analysis to generate an abstract syntax tree (AST), while performing error handling. Then build a new LLVM IR syntax tree and generate LLVM IR code.

BUAA Price Comparison Flea Market   Sep.2023 – Dec.2023

Front-end and Interaction   Beihang Database System Introduction Course Project

Project Address: https://github.com/intrepidLi/BUAA_DataBase_2023

- A front-end and back-end interactive website using ReactJS, Flask framework and Huawei Cloud Database, including user system, comment system, commodity trading system and other functions.
- Mainly responsible for front-end and interaction work, including using Material-UI for website design, using the axios library for front-end and back-end interaction and interaction debugging improvements.

PUBLICATIONS

WaterBench: Towards Holistic Evaluation of Watermarks for Large Language Models

Shangqing Tu*, **Yuliang Sun***, Yushi Bai, Jifan Yu, Lei Hou, Juanzi Li (*Equal Contribution)

- Preprint: https://arxiv.org/abs/2311.07138
- *ACL2024* Under Review

RESEARCH EXPERIENCES

WaterBench: Towards Holistic Evaluation of Watermarks for Large Language Models

Research Assistant, Advisor: Prof.Juanzi Li, Tsinghua University   May.2023 – Dec.2023

- In order to evaluate the watermarks for large language models holistically, we proposed a new idea: adjust the intensity of different watermarks to the same through hyperparameter search, and then test the quality of texts with different watermarks.
- Constructed nine different tasks (five categories) as evaluation datasets.
- Used GPT4-Judge and human evaluation methods to evaluate texts.
- Mainly responsible for hyper-parameter search, evaluation experiments, data processing and writing part of the paper.

HONORS

Scholarships for Outstanding Second-class Learning at Beihang University   2022

Scholarships for Outstanding Second-class Competitions at Beihang University   2022,2023

Third-class Prize of the 14th Lanqiao Cup C/C++ Graduate Group   2023

MISCELLANEOUS

- Language：English（CET6），Mandarin - Native speaker
- GitHub: https://github.com/intrepidLi