

Education Background

Bachelor of Engineering	2015.9 – 2019.6	Master of Science	2019.7 – 2020.6
Southeast University (Nanjing, Jiangsu)		Nanyang Technological University (Singapore)	
School of Instrument science and engineering		School of Electrical and Electronic Engineering	
Measurement technology and Instrument		Communications Engineering	
Weighted average score: 86.39/100		GPA: 4.56/5.00	

Projects

07/2022

Stranger social platform Metric Construction	
Situation	In the fierce competition of stranger social, users may be active in many stranger apps simultaneously, which causes great difficulties to user retention. Customer churn results in bad revenue of the platform.
Task	This project aims to establish a miniature indicator system from scratch used for quantifying business development.
Action	Broke the whole business into three sections: <u>user</u> , <u>business</u> and <u>platform</u> . Sorted out business indicators for each part, shown in <u>mind map</u> . Designed data embedding events for selected indicators and randomly generated some user behaviour data using Python. Based on the generated data, worked out the indicator values and customized <u>metric boards</u> .
Result	1 An indicator system provides us with a comprehensive perspective towards monitoring and understanding business development. 2 Based on historical data of indicators, reasonable fluctuation range of indicators can be set, which facilitate early warning mechanism. 3 Metrics boards bring many benefits: vivid and real-time data visualization, easily-discernible trend of the data.

06/2022

User intention detection Based on pre-trained language model ERNIE	
Background	At present, voice interaction is more in line with people's living habits. However, there is still a long way to go to meet the various types of complex needs of users. The origin can be found that the high complexity of natural language itself hinders the machine's understanding of the users' intentions. The natural language understanding (NLU) task, important to products with voice interaction ability, aims to enable the computer to understand the user's language, so as to make the next decision or complete the interaction action.
Task	Build models to identify users' implicit/explicit intent and extract key slot information from text messages.
Solution	Improved the training data quality by corpus enhancement. Used divide and rule strategy, with the help of pre-trained language model and Chinese word vector, finally achieved the functional requirement with the metrics a little better than that of a baseline model.

11/2021

AB test on two banner schemes	
<u>Situation & Task</u>	Assumed an e-commerce scenario, there were two different ad banner adjustment solutions we wanted to know the user acceptance to. And plan to design an AB test on it.
<u>Action & Result</u>	Prerequisites and relevant assumptions were considered. And then designed user events and grouping strategies. Executed some statistical operations based on sample data and drew a conclusion.

2017-2018 **Southeast University RoboCup team member (rescue simulation 2D)**

Situation The team was built for the RoboCup competition and my sector focuses on resource scheduling simulation task.

In a simulated environment, we collaboratively implemented our algorithms to allocate several kinds of virtual resources in case of fire situations, which can minimize the loss of the fire damage and the teams get graded according to the controlling performance.

Duty primarily maintained and optimized our clustering function, for example, upgrading the Kmeans to Kmeans++ leading to a reduction of precomputation time and providing a good initial distribution setting. As a result, my teammates could run their functions based on the pre-clustered pattern in an efficient way.

01/2019-06/2019 **Research on landing plane selection based on Lidar**

【UG FYP】

Situation The main purpose of this FYP is to read out the data from offline Lidar data files and locate the desirable landing plane. I developed a custom program for user to select specific data files and visualizing the dynamic plane selection.

Solution I firstly tried to use PCL, a well-known library for point cloud processing, however got out of it later due to the heavy weight. According to the nature of the data structure dumped in files, I developed an ad-hoc decoding method to work out the locus of planes. It achieved the balance of accuracy and computation load and facilitated the dynamic playing smoothness.

Optimization After meeting the functional requirements, the corresponding optimization was explored from the aspects of code optimization, introduction of SIMD technique and CUDA programming, and the difference in effects was summarized and the reasons were analyzed.

Working experience

08/2020-04/2022 **JAVA software engineer at a fintech company**

to [Linkedin](#) profile

key responsibilities

develop, maintain, bugfix and upgrade functional code for new and old systems.

something memorable

1 Upgraded a dependency graph visualization which improves user experience.

2 Responsible for a lingering and complicated version transition task that required follow-up communication and tailored technical solutions, which allowed stakeholder business parties to enjoy comprehensive features of higher version.

3 Owned an searching cluster, from establishment, development to maintenance of applications running upon it. Solved the technical stagnation of the outsourcing team at that time and anything relevant got quickly responded.

Stack: Springboot/ Mysql / Mybatis /SpringCloud/ Elasticsearch / Gitlab / Linux

Scholarship & Prize

06/2018	Huawei Scholarship	University level
04/2018	RoboCup 2018, China Open, Rescue Simulation 2D, First Place	Nation level
07/2017	RoboCup 2017, Nagoya, Japan, Rescue Simulation 2D, Fourth Place	World level

Skills

Perform data preprocessing and EDA using Python and relevant libraries (e.g., Pandas, Numpy). [certificate](#)

Develop basic DNN models with the help of Pytorch/[PaddlePaddle](#).

Call [scikit-learn](#) API to build models for predictive data analysis.

Make visualizations by means of [Echarts](#) and also d3.js previously.

Application of some thinking frameworks (e.g., AARRR, SWOT, BCG matrix, 3C, PEST)

Other Experience: Tableau, SPSS, matlab, SQL, Linux