Chuyi ZHAO

(86)19921307607 | zhaochy1@shanghaitech.edu.cn
lindazha0.github.io | 393 Middle Huaxia Rd, Pudong, Shanghai | 201210

Education

ShanghaiTech University 2018.09 - 2022.07

- B.E. in Computer Science and Technology

Selected Courses: Computer Architecture, Operating System, Algorithms and Data Structures, Algorithm Design and Analysis, Artificial Intelligence, AI for Science and Engineering, Computer Graphics II

Curricular Projects

Development of A Python-Based Game: Landlord Off

Python (OOP) 2020.12

- Implemented a card game with three AI players: random, **A*** and **minimax-tree** algorithms-based, to compete with, referering to the Pacman Project structure in UC Berkly, CS188
- Optimized the algorithms to realize an improvement of **18%** on winning rate

Development of PintOS

C 2020.09 -2020.11

- Developed a tiny **operating system** based on C, ranking A level in the related course
- Implemented functions for clocking, stacking, system calls, file system management, and synchronization

Academic & Research Experience

SC21 Student Cluster Competition, Reproducibility Challenge (RamBLe Reproducibility)

Python, Bash, (Spack, MPI) 2021.09 - 2021.11

- Deployed the framework from a previous SC paper, *A Parallel Framework for Constraint-Based Bayesian Network Learning via Markov Blanket Discovery,* constructing BN networks from large-scale data sets
- Performed the scaling experiments on Oracle using Python and Bash scripts

PromotionLens: Inspecting Promotion Strategies of Online E-commerce via Visual Analytics (Under Review)

H5+C3+JavaScript(Vue.js, D3.js), Python, MongoDB 2021.07 - 2021.09

- Constructed a full-stack visual analytics system for analyzing the influence of promotion strategies on the online E-commerce from scratch
- Combined representative multivariant time-series prediction models and elaborated visualizations to demonstrate and interpret the influence of various promotion factors and support “what-if” analysis on promotions

Protein-Protein Interaction Prediction Based on Multi-Channel Input Deep Learning Algorithm

Python(PyMol), Bash(PBS), FreeSASA 2020.09 - 2021.04

- Processed PDBbind data sets of nearly 20,000, implemented a novel CNN framework to score the feasibility of Protein-Protein Interactions (PPI), trained a ResNet model with the prediction accuracy of **71%**, and made benchmark comparisons for evaluation

Honors & Awards

2nd Place in the **SC21, Student Cluster Competition (1st in RamBLe)** 2021.11

Professional Experience

Shanghai Neogenint Intelligent Technology Co., Ltd 2021.07 - 2021.09

Software Developer Intern

- Achieved a server performance test using MLPerf and finished a report
- A series of programs deployed on Nvidia Jetson Nano, e.g. a real-time crack detector, and an intelligent Jetbot with GUI and modules like face recognition, voice prompt, obstacle avoidance, etc.

Skills

Programming Language: C/C++, Python, Matlab, HTML/CSS, JavaScript, Java, LaTex/Markdown, Bash

Frameworks: Numpy, Pytorch, Tensorflow, OpenCV, OpenGL