Huiching Kang

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Skills

Programming Languages: C/C++,OpenMP,Java,Python,JavaScript,MySQL
Libraries/framework: Spring, Spring Boot, React,Tailwind Css,Node.js, Vue,pandas, NumPy, Matplotlib
Tool/System: Git, Linux, Kubernetes,Docker

Education

University of Houston Completed Jan 2024
Post Baccalaureate in Computer Science *Houston Texas*
Lone Star College Completed Dec 2021
Associate in Computer Science *Houston Texas*
Tamkang University Completed Feb 2015
Bachelor of Science in Political Science *Taipei Taiwan*

Experience

Software Engineer Intern,Orange Mod Works LLC Houston,Taxas Mar 2022–June 2023

- Assisted front-end data backed up and migrated web server to save approximately 5k cost annually on the website service during post COVID.
- Designed, tested and deployed an interface application with Spring boot, Spring MVC, MySQL database to help the subsidiary company to increase efficiency on inventory data auditing.
- Collaborated with team of 2 interns to implement features by using version control systems such as Git to improve app modifications and team work efficiency.

Projects

Biking Equipment Chat Bot | *Python,BS4,BERT-Question Answering model,MySQL,Docker* 2024 Jan
* Utilized Beautiful Soups to collect 70k data to pre-train cycling QA model.
* Manually built data pipeline by using Panda ,topic modeling and db-scan cluster to organize the dataset before pre-train the model .
* Covert user input into database by using MySQL query
* Curated the question and answer pairs to train the QA model with words embedding techniques and fine tunning techniques.

File Compression Algorithm Analysis | *C++ POSIX Threads* 2023 June-July
* Utilizing P-thread library to analyze efficiency of the concurrency and multi-threading techniques.
* Implementing inter-process communication techniques with file compression algorithms to establish socket connection.
* Manipulating P-thread by using mutual exclusion concepts within the file compression algorithm.

Game Data Festival | *Python, Pandas, Matplotlib, SkLearn* 2022 April
* Analyzed the game Elm City Stories that was developed for researchers at the Play-2-Prevent-Lab within the Yale School of Medicine.
* Used R and Python programming languages for data preprocessing and create a visual analysis within 24 hours.
* Strategy planning with 4 teammates to analyze player's patterns based on player's data log in the game.

Gallery Furniture: Consumer Pattern Analysis | *Python, Pandas, Matplotlib, Seaborne, and Sklearn*2022 March
* Analyzing consumer data provided by Gallery Furniture for online marketing campaign performance.
* Collaborating with a team of students to pitch ideas and strategies in by weekly discussions and presentations.
* Applied different machine learning algorithms- decision tree algorithms, and linear regression with SMOTE technique as a model prediction.
* Utilizing compatible packages such as Matplotlib, Seaborne, and Sklearn, to analyze data sets.
* Presented a topic of sales prediction by using linear regression modeling in the MAA(Mathmetical Association of America) conference 2022.