Haoran MO

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**PERSONAL SUMMARY**

A results-oriented, ambitious, and competitive software developer who is passionate about continuous improvement. As an excellent data developer with over one year of experience in software programming and code writing, seeking a postgraduate program that will allow me to further develop my computing operation skills and contribute to the field of computer science. Well-prepared to tackle complex data processing questions based on a strong background in data science and big data technology.

**EDUCATION BACKGROUND**

**Qufu Normal University** 09/2018 - 06/2022

***Bachelor’s Degree in Data Science and Big Data Technology***

* **GPA:** 3.89/5.0
* **Modules Include:** Advanced Mathematics, C Language Programming, Python Programming, Machine Learning, Java Programming Language Design, Hbase Big Data Technology, Hive Big Data Query Technology, Data Structure

**THESES**

**Design and Implementation of DBSCAN Algorithm**

*Undergraduate Thesis*

* Abstract: On the basis of the original DBSCAN algorithm, improvements can be made to eliminate the need to manually specify Eps and Minpts parameters. Instead, the program can adaptively confirm the values of these two parameters based on the characteristics of the data itself, evaluate the clustering results using the DBI index, and use the algorithm to infer the approximate work and residential addresses of users based on the data density on the map using the user trajectory data published by Google.

**WORK EXPERIENCE**

**Software Developer, Rizhao Tiancheng Rubber Co., Ltd** 08**/**2022 - 11/2023

* Participated in the development and daily maintenance of the company's internal management system, wrote high-quality code and effectively fixed errors, and helped to improve system performance and stability
* Worked closely with product, sales, and supply chain teams to understand requirements and provided technical solutions to facilitate effective communication and collaboration between departments
* Assisted in the development of data analysis tools for monitoring the efficiency and product quality of rubber production lines, helping the company optimise production processes and quality management
* Organised technology sharing meetings and produced relevant documents to enhance the overall technical level and collaboration efficiency of the team

**INTERNSHIP**

**Data Development Intern, Beijing Xuejiaao Software Technology Development Co., Ltd** 09**/**2021 - 11/2021

* Deepened my understanding of Hadoop clusters, their components, and big data technology through practical operations, including the entire process of data collection, cleaning, storage, analysis, and visualisation
* Established a user behaviour and business data collection platform by using key technologies such as Hadoop, Sqoop, Kafka, ZooKeeper, and Flume
* Ensured the security and efficiency of the data processing through meticulous security management measures and efficient data processing strategies

**HONOURS**

* Third-class Scholarship at Qufu Normal University, 2020
* Third Prize in Shandong Province College Student Software Design Competition, 2020

**ADDITIONAL SKILLS**

* **IT & Programming Skills:** Microsoft Software, MySQL, Linux, C Language, Python, Java
* **Language Skills:** Mandarin (native), English (fluency)
* **Hobbies:** Billiards, reading, travelling