Hua (Holly) Xiao

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Authorized to work in the U.S.

OBJECTIVE

Looking for 2023 Summer Developer Intern

EDUCATION

<u>M.S. Computer Science,</u> The University of Texas at Dallas, Richardson	GPA 4.0/4.0	Expected Dec. 2023
<u>Ph.D. Horticultural Science</u>, Virginia Tech, Blacksburg	GPA 3.9/4.0	May 2017
<u>M.S. Zoology,</u> Beijing Normal University, Beijing, China	GPA 3.8/4.0	July 2009

Relevant Coursework: **Algorithm** Analysis and **Data Structures**, Design and Analysis of Computer **Algorithms**, **Machine Learning**, **Database** Design, Operating Systems, **Big data** Management and Analysis, Computer Architecture, Discrete Structure, Advanced Experimental/Research in Cyber Security

SKILLS

Programming Languages: Java, Python, SQL, HTML/CSS, JavaScript, JSON, PHP
Frameworks & Tools: MySQL, Laravel/MVC, Bootstrap, jQuery, Node.js, Git/GitHub, Jupyter Notebook, NumPy, Scikit-Learn, Matplotlib, Hadoop, PySpark
Operation Systems: Linux, UNIX, MacOS, Windows
Other Relevant Skills: Fast-learning, Leadership, Communication, Organization, Self-motivated, Team-oriented, Problem-solving, Bilingual (English and Chinese)

EXPERIENCE

Web Developer Intern, GiniLytics IT Solutions, Plano   *July 2022-present*
- Maintained and enhanced current features of the web application for the MedSupply company managing over 1500 equipment and 120 facilities using **HTML/CSS**, **JavaScript**, **PHP, Bootstrap, Node.js** on the **Laravel framework** and **MySQL database, Git/GitHub.**
- Worked closely with software engineers, project managers, and team leaders in **an agile environment**
- Implemented **QA testing** and task assignment in Backlog to improve the performance of web application design through **JIRA** software

Research Assistant, Virginia Tech, Virginia   *August 2012 - May 2017*
- Collected, processed, and analyzed the raw genome data to identify plant candidate genes and microbial communities related to iron absorbtion using **Python** and QIIME platform
- Conducted statistical analysis on the processed genome data using **R** for ANOVA, PCA, and published the results on the peer-reviewed journal

PROJECT WORK

Big Data management   *August 2022 - September 2022*
- Worked on the **Hadoop** cluster to manage and analysis the big data file using **Python** and **PySpark** library
- Implemented **MapReduce** method to compute the word frequency of named entities and create tf-idf for every term and every document for documents selection

Web Development   *June 2022 - July 2022*
- Developed websites allowing clients, administrator, and employees to log in and check information from an Online Airport System using **HTML5/CSS**, **JavaScript**, **PHP** and **MySQL**

Database Design   *January 2022 - May2022*
- Designed and implemented relational database systems for a Library System and a Factory Company
- Managed databases by developing **SQL** queries for editing and creating view in the **MySQL** system

CERTIFICATIONS & HONORS

Programming Foundations: Object-Oriented Design, LinkedIn	August 2022
ICTAS Doctoral Scholar Fellowship (Top 5%), Virginia Tech	August 2012 – July 2016
Excellent Graduate Student Fellowship, BNU, China	July 2009