Zixuan Jia

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TEXAS A&M UNIVERSITY, COLLEGE OF ENGINEERING ***College Station, TX***

Bachelor of Science in Computer Science, Junior Status ***May 2022***

GPA: 3.95/4.0 ***Major GPA: 4.0/4.0*** ***Minor: Business*** ***College of Engineering Honors Member***

WORK EXPERIENCE

Software Engineer Intern | **Bray International Inc.** ***Summer 2020***

- Internship offers accepted. Rescinded due to COVID-19

Undergraduate Research Intern (Data Analyst) | **Texas A&M University** ***Summer 2020***

- Created a new application to detect plagiarism for programming introduction courses
- Worked in Data Group to store data, retrieve data, and analyze data; worked on Data Analytics personally
- Used PostgreSQL as database and utilized Object Relational Mapper (ORM) on python to create a database and tables
- Handled 1 semester's data of 600 students' information initially; pulled other semester's data as we progressed
- Backed up data using shell script and Crontab on a daily basis, and upload the.SQL file to Amazon S3 service
- Worked remotely with a team of 9 students, participated in weekly meetings, and developed my part of the application

Math Tutor for Calculus II | **Math Department at Texas A&M University** ***January 2020- current***

- Led the help session for calculus 152 (calculus 2) and provided test reviews for the students at Texas A&M University
- Helped students understand the material better and taught efficient study methods
- Held weekly office hours for students and increased test scores for students who participated in office hours

Student Technician | **IT Department at Texas A&M University** ***September 2018- March 2020***

- Managed staff, faculty, and students' PCs, laptops, and technological issues at the tech backroom
- Helped the staff close the tickets and resolve any problems assigned to me; averaged 45 tasks per week
- Equipped classrooms, meeting rooms with new equipment and set up basic school events and technological support
- Arranged meetings with customers who faced any technical issues with equipment and answered the front desk phone calls
- Worked with an IT data analyst to analyze movie lists with Microsoft Access and simple SQL
- Wrote a formal report concerning the check-in and check-out history each week to the Student Affairs Department

PERSONAL PROJECTS

NBA Game Result Prediction Application

- Utilized different packages in Python to scrape various data from the NBA's website including teams' and players' stats
- Used PostgreSQL as my database, created and built my table based on the Object Relational Mapper in Python
- Created a chart that included various relations of the NBA's stats, conferences stats, team stats, and player's stats
- Used Four Factor Analysis, Fuzzy Logic Algorithms, and other factors to predict the winner between 2 teams
- Planned to build the application using Flutter, a UI made by Google, and compiled application from a single codebase

Dynamics of Global Scale Social Networks in Disasters Research

- Designed graphic models using Python and developed applications on social network analysis
- Idealized decision-based models of cascades and used AWS server to collect data and analysis it
- Presented monthly statements to the research team and department and published it to the website to assist PHD Students

Data Science & Solution Project

- Created a database of basketball transactions using "RealGM International Transaction" as the primary source
- Utilized python and its packages to collect data, find information, and made the conclusion from the data or the graph
- Converted data from 2012 – 2019 into python and populated a SQLite database with all the transaction

Texas Space Grant Consortium (TSGC)- NASA Design Challenge

- Led the team to participate in the TSGC Competition and passed the 3rd stage
- Utilize the concept of aerospace, petroleum, mechanical, and chemical engineering etc. in designs
- Created an ideal situation for the *Human Journey to Mars* including water, ideal rocket engines, and other important factors that could affect the journey to Mars

LEADRSHIP ACTIVITIES

Student Government Association Freshman Engineering Representative

- Communicated between the student body and college engineering, and resolved issues for the students
- Analyzed over 700 student's response to college engineering's issue and promoted new advice to the college

Circle K International (CKI) Officer

- Held meetings bi-weekly meetings, and sought for over 5 new services, and created the new website for CKI
- Successfully managed the project Linus every year in April, and spend a day with shelter's children

SKILLS

Programming**:** Python, C++, Java, R, HTML, JSON, Scheme, SQL

Software/Tools: XCode, Microsoft Office, Visual Studio, Godot, Linux Command, PostgreSQL

Language: Chinese (native), English (fluent)

Involvement: Pygame (Slither) production, Hackthon, Datathon, Aggie Coding Club, Cyber Security Club