YU WAN

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EDUCATION

University of Illinois at Urbana-Champaign   GPA: 3.82/4.00

Major: Computer Science & Economics   FA19-FA20 Dean's List member

Minor: Statistics   Expected Graduation: Dec 2021

Relevant coursework: System Programming, Database System, Economic Statistics, Computer Architecture

SKILLS

- Programming Language: Java (Experienced), C/C++ (Intermediate), Python (Intermediate), SQL, R
- Software: MySQL, Neo4j, MongoDB, Git, Tableau, R Studio, Android Studio, VS Code
- Language: Mandarin(native)

PROJECT EXPERIENCES

E-sport Data Analysis Mobile Application (Java, Android Studio)   *Sept—Dec 2020*

- Integrated an Android application with crawled Esports data from official website and data analysis function
- Implemented the MySQL connection using servlet (Tomcat Server as web server and AWS as database platform)
- Fabricated the advanced function of predicting win rate using logistic regression.
- Conducted a full developing process of mobile application and related environment setting

Key Value Store with fault tolerance (C++)   *Dec 2020*

- Engineered a key-value store supporting CRUD operations (Create, Read, Update, Delete).
- Applied load-balancing through a consistent hashing ring to hash both servers and keys
- Achieved Quorum consistency level for both reads and writes
- Built membership maintain mechanism using membership protocol based on GOSSIP theory

Membership Protocol based on GOSSIP (C++)   *Dec 2020*

- Coded Membership Protocol from scratch based on GOSSIP theory in distributed system
- Ensured completeness and accuracy of failure detection when messages delays are small

Machine Learning Classification Model (python, Jupyter Notebook)   *Apr—May 2020*

- Designed and implemented an individual python program to classify handwritten digits with MNIST dataset
- Programmed Machine Learning algorithms, including: Stochastic Gradient Descent, Adaptive Moment Estimation
- Built a classification model with accuracy of 91%

Lease Search Application (Java, Android Studio)   *December 2018*

- Designed android application to integrate leasing resources around campus, including 10+ main rental properties
- Utilized Google Map API to develop function of displaying building locations
- Practiced skills in Object-Oriented Design of Android application

CAMPUS ENGAGEMENT

Association for Computing Machinery at UIUC   **Champaign, Illinois**

Active Member   *August 2018—Present*

- Involved in the Special Interest Group of Game Builders and collaborated with groupmates to design a 2D card game
- Participated in the Association of Data Science and Analytics

The Chinese Students and Scholars Association at UIUC   **Champaign, Illinois**

Cooperative Member   *August 2019—Present*

- Collaborated with other members to hold Moon Gala, the art event to celebrate Mid-autumn festival