Zichao Feng

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SKILLS & INTERESTS

Programming: Java, C++, Python, C
Front End/Full Stack Technologies: JavaScript/HTML/CSS, Flask, Django, Bootstrap
Application Technologies: Linux, Google Cloud SDK, OpenGL, OpenMP, OpenCV, MPI, MySQL, MongoDB, LabView, LaTeX

EDUCATION

Georgia Institute of Technology - *Cumulative GPA: 3.66*   Atlanta, GA
Major: Electrical and Computer Engineering   Expected Graduation: May 2021
Tianjin University - *Cumulative GPA: 3.67*   Tianjin, China
Major: Electrical and Computer Engineering   Sep 2015 – July 2019
Relevant Coursework: Computational Problem Solving, Introduction to Database Systems, Introduction to Object-Oriented Programming, Advanced Internet Computing, Dependable Distributed System, Computer Network Security

SELECTED PROJECT

Experiments with Chord-Based Distributed Hash Tables   Atlanta, GA
Course Project   April 2020 – Present
- Set up Chord rings and mapped objects to nodes in the Chord ring using **Python**.
- Emulated queries for different objects and measured different aspects of the Chord ring operation.
- Added equally-spaced replication of objects into the Chord emulator to provide robust access in the presence of some malicious nodes.

Google Cloud Dataflow Pipelining   Atlanta, GA
Course Project   March 2020 – Present
- Analyzed purchasing data generated from a video game store using **Google Cloud Dataflow**.
- Calculated and counted the total revenue and number of each game and output these records into a CSV file.
- Found game purchased at least once and found the other game purchased in the same transaction and output these records into a CSV file

Restful Web Services Design   Atlanta, GA
Front End, Back End Developer   Feb 2020 – Present
- Coded an app to maintain a database of video games using **Python** and **Flask** with **Visual Studio Code** IDE.
- Implemented the game information input and search function using **Flask** and stored all data using **Google Cloud Platform**
- Added a shopping cart function and deployed the application to **Google Cloud Platform**.
- Link: https://github.com/fzc2nothing/flask_application.git

Atlanta Movie Database App Design   Atlanta, GA
Front end, Back End and Database Developer, Group Team Leader   Aug 2019 – Dec 2019
- Completed an online movie system for both customers and theater manager using **Java** with **IntelliJ IDEA** IDE and **MySQL**.
- Implemented a relational database management system that supports film information management SQL queries using **MySQL**.
- Created the user interface (UI) using **JavaFX** and connected UI to the database through backend function with **Java JDBC**.

Discrete Event Simulation (DES) of Rumor Spread in Social Network   Atlanta, GA
Software Developer, Group Team Leader   Oct 2019 – Nov 2019
- Completed the rumor spread DES system design using **Python** with **PyCharm** IDE.
- Used **Daley-Kendall** and the **Maki-Thompson** rumor models to construct the rumor spreading model.
- Implemented **Dijkstra** algorithm to enlarge the virtual network and determine the spreading probability.

RESEARCH EXPIERENCE

KNN and K-Means Data Analysis   Atlanta, GA
- Produced a series of point data using **K-Means** algorithm using **C** language with **CLion** IDE.   Sep 2019 – Oct 2019
- Implemented the point data cluster analysis using **KNN** algorithm using **C** language and ploted data.