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QU(Q) YUAN

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EDUCATION

M.S. in Information Systems Management, Washington University in St. Louis, GPA:3.88/4.00   Sep. 2018 - Dec.2019
B.S. in Finance and Banking, Shanghai Ocean University, GPA:3.67/4.00   Sep. 2013 - Jul.2017

SKILLS

- Programming Languages: Java, JavaScript, SQL, Go, Python
- Database/Data analytics: MySQL, MongoDB, R, Redis
- Web Development: Java Servlet, AngularJS, Node.js, JQuery, HTML&CSS, PHP,TypeScript

SCHOOL ACTIVITIES

Teaching Assistant of WashU Data Structures & Algorithms, Database Management Systems Courses
- Mentored students on coding problem sets, debugging sessions and responded to their questions in Piazza
- Guided students through lab sessions, projects and assisted professors with grading exams and homework submissions
Member of WashU Women in Computer Science

PROJECT

DESIGN SQL AND MONGO DATABASE SYSTEMS IN JAVA   Jan. 2018 – May 2018
- Used the concepts of Object Oriented Analysis and Design to analyze and design **SQL** and NoSQL database systems
- Implemented file management, B+ trees, join Algorithms, query optimization, concurrency control functionalities
- Wrote a suit of **Junit tests** to test each functionality
PAC-MAN GAME AI DRIVE ALGORITHM IMPLEMENTATION IN PYTHON   Sep. 2018 - Dec. 2018
- Implemented depth-first search, breadth-first search, cost search, A* search algorithm to drive Pac-Man to find beans
- Used **reinforcement learning and Q-learning algorithms** to enable Pac-Man to learn how to win the game
THE SECOND PLACE KAGGLE COMPETITION OF APPLICATIONS OF DEEP LEARNING   Sep. 2018 - Dec. 2018
- Preprocessed the raw data, transformed into features and fixed missing values by Python, Google TensorFlow and Keras
- Constructed **Neural Network**, **Random Forest and Gradient Boost Regression Tree** to train on features and merge
A WEB DEVELOPMENT PROJECT-EVENT SEARCH TICKET RECOMMENDATION   Jan. 2019 - Mar. 2019
- Designed an interactive web page for users to search events based on keywords and location as well as purchase tickets utilizing **HTML**, **CSS** and **JavaScript**
- Implemented several **Java servlets** using **RESTful APIs** to handle HTTP requests and responses
- Built relational and NoSQL databases (**MySQL, MongoDB**) to store event data from TicketMaster API
- Designed content-based **recommendation algorithms** to implement event recommendation
A COLLABORATIVE ONLINE JUDGE SYSTEM   Sep. 2018 - Dec.2018
- Developed a collaborative code editor supporting multiple users editing simultaneously using **ACE, Socket.io, Redis**
- Designed and developed a single-page web application for coding problem through **Angular2, Node.js, MongoDB**
- Built a user-code executor service (**Docker, Flash**) which can build and execute users'code
- Improved system throughput by decoupling services using **RESTful API** and loading balancing by **Nginx**

INTERNSHIP

Data Intern EVERBRIGHT BANK   Jan. 2017 - Mar. 2017
- Imported new customers' information into the system using **SQL** and use SQL statements to query informational tables
- Searched for the vulnerabilities in the system using security and forensic tools (**SQL Server Profiler**)
Financial Analyst Assistant DORAY CAPITAL   Jun. 2014 - Sep. 2014   Jan. 2015 - Mar. 2015
- Analyzed the annals of Taxi industry data, calculated the yield rate and the specialTaxi successfully was carried out
- Assisted CDPF to design taxi subsidizing policies for the disabled and to implement the subsidies of the program
- Calculated the expected profit of Amaranth Group later funded ￥100 million and completed the roadshow PPT