Qianhui Yu

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EDUCATION

Columbia University

New York, NY

• M.S. in Electrical Engineering, GPA: 3.78/4.00

09/2019 - 12/23/2020

• Courses: Analysis of Algorithms, Cloud Computing, Introduction to Databases, Big Data Analytics, Computer Networks, Introduction to Blockchain, Applied Deep Learning

Huazhong University of Science and Technology (HUST)

Wuhan, CN

• **B.S.** in Electrical Engineering, GPA: 3.76/4.00

08/2015 - 06/2019

• Courses: Data Structures, Computer Architecture, Digital Signal Processing, Probability Theory and Statistics, Pattern Classification, Computer Vision, Artificial Intelligence

SKILLS

Programming Languages: Java, Python, JavaScript, C/C++

Operating Systems: Windows, Linux, MacOS **Database**: MySQL, PostgreSQL, DynamoDB

Cloud Platform: Azure, AWS, GCP

Development Framework: Spring, React, Django, Flask

Other Tools / Technologies: Spark, HTML, Git, Swagger, Elastic Search, Lex, Socket Programming, Navicat

INTERNSHIP

Software Development Engineer Intern

06/2020 - 08/2020

Walmart Inc.

- Worked in RRO team
- TBD
- TBD
- TBD

Software Development Engineer Intern (Java)

06/2019 - 08/2019

E-Navigation Information & Technology Co., Ltd

- Implemented Ship Route Planning Module with Java, Spring, SpringMVC, and MySQL.
- Remodeled the ship route planning service using the shortest path algorithm.
- Improved the response speed of route planning service (from harbor to harbor) by 28.3% on average.
- Initiated a new feature which enables our system to provide route planning service from any point to destination harbor.

PROJECTS

Intelligent and Secure Access System based on AWS (Python, JavaScript)

10/2019 - 12/2019

- Backend:
 - Established visitor filter with Lambda Function, Amazon Rekognition, and Dynamo DB.
- Enabled system to distinguish between strangers and known visitors.
- Created visitor authentication workflow with Lambda Function and API Gateway.
- Enabled managers to authorize visitors' access.
- Enabled system to store new visitors' faces and send one-time-password.
- Frontend:
- Designed and Developed the visitor/manager portals
- Integrated two web pages with API Gateway and Swagger.

Better Name More Money: Airbnb analysis (Django, Spark, HTML)

10/2019 - 12/2019

- Developed the web application using Django and generated the following listed functions' APIs for the application.
- Visualized significant words used in names of listings with high popularity by clustering and generating WordCloud.
- Recommended words that could bring more popularity for householders.
- Generated Airbnb price heat map and crime heat map with Google API.
- Developed and tuned popularity prediction tools based on Random Forest and XGBoost.
- Achieved lower MAE from 1.21 reviews (baseline) to 0.63 using Cross-Validation and Grid-Search.

Group shopping web application (Python, Flask)

10/2019 - 11/2019

- Designed and created the group shopping database in PostgreSQL.
- Implemented the demo functions including login, adding items, adjusting cart, placing orders, showing order history, and management mode with Flask.
- Deployed the application on the VM in GCP.