

Mingjun Wang

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EDUCATION

Columbia University

M.S. in Computer Science, GPA: 3.75/4.0

New York, NY

Dec 2022

- Relevant Courses: Intro to Databases, Analysis of Algorithms, Natural Language Processing, Advanced Database

Xi'an Jiaotong University

B.Eng. in Computer Science, GPA: 89.55/100

Shaanxi, CN

Jul 2021

- Relevant Courses: Software Engineering, Object-oriented Programming, Operating System, Computer Organization
- Honors: Second-class Scholarship, Excellent Student Award

WORK EXPERIENCE

Shipt, Inc

Backend Engineer Intern

Birmingham, AL (Remote)

Jun 2022 - Aug 2022

- Automated the Brand Classifier using Python to retrieve data from Snowflake, create "search keywords - product brands" mappings and published results to Kafka
- Evaluated and Deployed the Brand Classifier on Kubernetes and scheduled it as a Cron job with Airflow DAG
- Merged 2 features into Query Understanding worker using Go: Kafka consumer and data storage into Postgres and Redis
- Designed unit and integration tests for Query Understanding worker and deployed it to staging after being checked by Drone CI

Shaanxi Key Lab. of Satellite-Terrestrial Network Tech. R&D

Machine Learning Research Assistant

Shaanxi, CN

Oct 2019 - Jun 2021

- Reproduced dynamic link prediction model and improved prediction accuracy to 99% using pytorch
- Utilized link prediction model to analyze information diffusion process on social network composed of 12,000+ users in Twitter
- Implemented Plotly to visualize 2 months of propagation process of messages among robot users and genuine human users

Windirection Information Technology Co.

Backend Engineer Intern

Shaanxi, CN

Jul 2020

- Developed the City House Rental Assistant website based on neural network and XGBoost algorithm with 8 group members
- Utilized Flask as web framework, constructing interface on Linux server to connect with front-end user interface
- Programmed and tested application functions including extracting house information, estimating house price and locating house
- Updated technical documentation and formulated frameworks of website system architecture with flowcharts

PROJECTS

Newsec: Newsfeed Web Application that Recommends Interesting News in a Second

Oct 2022 - Dec 2022

- Focused on the backend development of news recommendation using AWS Lambda function and Personalize Recommendation
- Built API that records user activities like viewing news or showing preference into DynamoDB and Personalize dataset groups
- Constructed real-time news recommender systems based on news contents and keywords after collecting 2,000+ training events
- Made project demo in the final presentation and wrote the Implementation and Code Structure parts of project reports

Demeter: Recipes Web Application with Ruby on Rails Framework

Sep 2022 - Dec 2022

- Led the team to develop a Recipe website with 6 features where users can create recipes, search recipes, monitor calories intake
- Built and maintained the database with 800+ recipes crawled from Spoonacular API and 10,000+ ingredients from USDA API
- Developed the user authentication and recipe creation features with HTML/CSS/JS as frontend, Ruby as backend
- Conducted Cucumber integration test with 99.67% coverage and RSpec unit tests with 100% coverage

Cloud Computing and Big Data Projects Based on AWS Services

Sep 2022 - Dec 2022

- Established a Spam Detection system using Sagemaker as emails spam classifier; SES as notification system; CloudFormation to automate 7 infrastructure resources by configuring stack YAML file
- Implemented Dining Concierge website that provides restaurant recommendations using Amazon Lex as chat robot; DynamoDB and OpenSearch as datastores which contains 10,000+ restaurant information collected from Yelp API
- Developed AI photo album using Rekognition to index images; Elasticsearch to store image indexes; API Gateway to form APIs for photo searching and photo uploading; S3 bucket to host frontend and photos for public access

TECHNICAL SKILLS

- Languages: C/C++, Python, Go, Ruby, Java, Matlab, SQL, Verilog HDL
- Backend Development Tools: Docker, Drone, Git, Kubernetes, Kafka, Airflow, Snowflake, PostgreSQL, Redis
- Other Tools: Latex, GEM5, Quartus, Visio, Linux, Android Studio