Xueying (Molly) Chen

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https://mc217.github.io/

TECHNICAL & LANGUAGE SKILLS

Languages & Skills: Python, C++, C, R, SQL, HTML, CSS, jQuery, Django, React, Bootstrap, Vim, TCP/IP, AWS, Git, Machine Learning

Relevant Coursework: Cloud Computing, Introduction to Database, User Interface, Computer Network, Data Structures, Analysis of Algorithms

EDUCATION

Columbia University   New York, NY
M.S. Computer Science   01/2021 - 05/2022

Baruch College/CUNY   New York, NY
B.A. Statistics   Class of 2019

PROJECTS

Housing Scam Detector   Spring 2022
- Implemented a web application to teach users how to detect housing scams within 10 minutes when buying a new house or renting a home, and the application was built by using HTML, CSS, jQuery, Bootstrap, and Flask

Movie Web application   Spring 2022
- Implemented a movie web application that is a usable CRUD operation where users can view top-rating movies on the homepage and search, update, and add movies. The application was built using Python, HTML, CSS, jQuery, etc.

TCP/IP Server   Summer 2021
- Built a TCP/IP server from scratch in C programming language and implemented multi-process and multi-thread servers on top of the TCP/IP server

Web Proxy Server   Spring 2021
- Implemented a web proxy server with LRU cache to improve the performance of communication between client and web server in Python

Alternating Bit Protocol   Spring 2021
- Implemented a reliable ACK/NACK protocol to exchange packets with UDP sockets in Python, which can handle network delays, packet losses, and packet corruptions

Database Engine   Spring 2021
- Implemented a database engine to handle CSV files that acts like a database, which can perform CRUD operations by using Python, REST API, and MySQL

Photo Album Web Application   Spring 2021
- Implemented a photo album web application that can take natural language (text and voice) requests to search photo album database
- Generated an intelligent search layer using Lex, Elasticsearch, and Rekognition (AWS) to query different types of images

Dining Concierge Chatbot   Spring 2021
- Implemented an intelligent chatbot, which was a serverless and microservice-driven web application that sent users restaurant recommendations based on a collection of preferences via front-end conversation by using AWS S3, API Gateway, Lex, SQS, Elasticsearch, and DynamoDB

WORK EXPERIENCE

RF CUNY   New York, NY
Software Engineer   02/2023 - 08/2023
- Build and maintain dynamic Web-based platforms for diverse projects, ensuring optimal functionality and user experience
- Effectively communicate with end users to gather requirements and incorporate feedback into the development process
- Collect, analyze, and prepare data related to energy usage to support CUNY's energy-saving research and present key findings during weekly meetings, aiding in data-driven decision-making and resource optimization strategies

Reed Technology   Horsham, PA
Data Operator   05/2020 - 10/2020
- Managed company data and created tabular according to established rules based on individual project needs, maintained department's quantity and quality metrics

NTR Business Group, Inc.   New York, NY
Data Programmer   02/2020 - 03/2020
- Used MBS software to edit codes and format data correctly and performed validation tests on details to ensure data accuracy by investigating and crossing applications