

## TECHNICAL & LANGUAGE SKILLS

**Languages & Skills:** Python, C++, C, R, Data Structures, Algorithm, SQL, HTML, CSS, jQuery, Bootstrap, Vim, TCP/IP, AWS, Git

**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