GUOBIN CHEN

+1 (781) 541-0131 ◇ Waltham, MA

guobinchen@brandeis.edu ◇ LinkedIn ◇ https://guobinchen.netlify.app

EDUCATION

Brandeis University   **Waltham, Massachusetts, United States**
Master of Science in Computer Science, GPA:3.7/4.0   **08/2020 - 12/2022**
Soochow University   **Suzhou, Jiangsu, China**
Bachelor of Science in Biochemistry, GPA:3.6/4.0 | Dean's List (top 10%)   **09/2015 - 06/2019**

SKILLS

Languages   C/C++, Java, Python, JavaScript, SQL, Scala, Shell, HTML, CSS
Frameworks React, Angular, Node.js, Rails, Django, Flask, Spring, Spark, Pytorch, TensorFlow
Tools   Linux, Git, Docker, Databricks, Kubernetes, Terraform, MongoDB, AWS services, TestRail

WORK EXPERIENCE

Diameter Health - Software Engineer Intern   **Farmington, CT**
Collaborated with DevOps team   **05/2022 - 08/2022**

- Utilized Helm charts to configure Kubernetes resources and deployed 40 client services to clusters on AWS EKS
- Created a resuable **terraform module** that could be integrated into infrastructure code to set up a Databricks workspace instead of creating it manually for data team
- Modified existing terraform modules to create S3 bucket for storage also a cross-account IAM role including policy attachment and configuration to manage Databricks workspace
- Configured Jenkins files to build **CI/CD** pipelines and test terraform module codes automatically by detecting new code commits from Github repository

Diameter Health - Software Engineer Intern   **Farmington, CT**
Collaborated with Data team   **01/2022 - 05/2022**

- Utilized Databricks notebooks to build up an **ETL** process to extract raw document from MongoDB, and then transformed documents into layered-based processed tables for commercial analysis
- Built optimization notebooks to vacuum redundant S3 storage of Delta tables and send optimization results to developers through email/slack using AWS SES service
- Constructed **automatical testing**, which will be triggered when a pull request(PR) to github repository, for ETL pipelines, and documented the **QA** results on TestRail

Brandeis University - Research Assistant   **Waltham, MA**
Collaborated with Prof. Pengyu Hong   **06/2021 - 12/2021**

- Collaborated with Ph.D students to use Python Matplotlib to visualize datapoints in QM9 dataset
- Used Pytorch to build and train Graph Neural Network**(GNN)** model to predict molecular properties
- Visualized 600 dimentional data using t-SNE from sklearn library and analyzed results
- Submitted a research paper manuscript to Neural Information Processing Systems (NeurIPS, 2022)

PROJECT

EdTok Video Sharing Web Application | Demo   **01/2021 - 05/2021**
Ruby, Rails, JavaScript, AJAX, PostgreSQL, Heroku, Amazon S3

- Implemented a **full-stack** web app where users can login, comment, and upload short videos
- Built a JavaScript and AJAX based front-end, integrated with CarrierWave, which enabled video upload to cloud automatically
- Established the back-end server with Ruby on Rails, utilizing PostgreSQL queries and mutations to simplify database **CRUD** operations
- Used Amazon S3 bucket to store uploaded videos and deployed product on Heroku Server