Linxiu (Frances) Jiang

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EDUCATION

Northeastern University | M.Eng. in Information Systems | Boston **Expected Graduation 08/2021**
Relevant Courses: Parallel &Multithread Programming, Data Structure &Algorithm, Data Science Engineering Methods, OOD with C++

Beijing University of Chemical Technology | B.Eng. in Automation | Beijing **08/2013 – 07/2017**
Relevant Courses: Computer Network, Distributed System (Automation Device), C Language Programing Practice, Advanced Mathematics

TECHNICAL SKILLS

Languages: Java, Python, C++, Golang, javascript, HTML, CSS
Databases: TigerGraph, MySQL, MongoDB
Framework: Spring boot, React, Svelte, Express
Other Tools: Git, Node.js, Unix/Linux, MVC, Singleton Pattern, Factory Pattern

PROFESSIONAL EXPERIENCE

Software Engineer | Futurist Academy | US **01/2021 – 5/2021**
 • Build and compare different scrapers based on Selenium, Tor&request, Node red platform. Implement parallel scraper to scrap 1.5 trillion scale data based on video web site bilibili.
 • Build a Web-App with TigerGraph using Streamlit & Graphistry. Write GSQL to implement shortest path and centrality algorithms in directed graph based on GSQL. Support page rank and shortest path based on least miles and least stop numbers. (hackathon)
 • Build a to-do-list web application using Svelte. Support functions such as cards creating, moving, changing, deleting and archive.
 • Write relevant blogs on Medium to share the tricks I used to solve problems and technologies I learned.

Information Assistant Engineer | CRRC | Beijing **08/2017 – 12/2018**
 • Hands-on assembly and qualification of central server hardware and development of administration software.
 • Maintain the company's database including employee information and technical archive management.
 • Give a speech at Cyber Security workshop for spreading cyber security knowledge across the employees.

PROJECTS

Recommendation Engine | Futurist Academy **01/2021 – 05/2021**
 • Create recommendation engine based on big scale http requests. Implement stream computing using kafka middleware. Write indexing, searching and Page Rank algorithms and feed data into TigerGraph. Create user search interface based on Svelte and javascript.
 • Implement inverse indexing and full text searching based on TigerGraph queries and graph algorithms.

Feedback Collection app | Boston **11/2020 – 01/2021**
 • Build a feedback collection application including Google OAuth authentication, mass emails handling, feedback collecting and member payment system based on React, Redux, Express and Mongo.
 • Communicate data from MongoDB to user based on React Router and Express. Build reusable user inputs with Redux Form, complete with navigation.
 • Handle credit cards and receive payments from users with Stripe and engage users with automated emails.
 • Build a group email sending system to let users store their feedback emails to the email group using React, Redux and Redux Form.

Earthquake Analysis and Prediction | Boston **10/2020 – 12/2020**
 • Give a detailed analysis of the high frequency areas and magnitude statistics of earthquakes in the World and the United States using the dataset from Kaggle with size over 500M and 12 attributes.
 • Analyze the earthquake frequency over years around the world with Linear Regression.
 • Predict the occurrence month of earthquake around the world using K Nearest Neighbors algorithm and predict the occurrence place of earthquake in USA with Long Short-Term Memory models algorithm.
 • Visualize data using Pandas, Numpy, Matplotlib, Scikit-Learn, BaseMap Libraries and basic Statistics.