

Sicong Wang

243 Webster Ave, Apt 2, Jersey City, NJ | 201-238-1710 | rangerwangsc@gmail.com | Employment Status: OPT 3-years
LinkedIn: linkedin.com/in/sicong-wang-200bb217b | Github: github.com/rangerfire

EDUCATION

Stevens Institute of Technology

Hoboken, NJ

Master of Science in Computer Science | GPA: 3.871

05/2019

Relevant Courses: Java Programming (Java), Database Management System (PostgreSQL), TCP/IP Networking(Java), Human Computer Interaction (HTML, CSS), Data Mining (R)

Nanjing Normal University

Nanjing, China

Bachelor of Science in Computer Science and Technology | GPA: 3.22

07/2017

SKILLS

Programming Languages: Java, SQL, SAS, C#, Assembly language, C/C++, R

Web Development: HTML, CSS, JavaScript, ASP.NET

Database Systems: PostgreSQL, MySQL

EXPERIENCE

➤ Important Gifts Inc. / dba Changing The Present, New York, NY

08/2019 - Present

Software Engineer, Information Technology

- Used Shopify and liquid to create sites for nonprofit organizations like changing the present;
- Maintained the data and did data transformation works.

PROJECTS

➤ Urban Traffic Analysis

05/2016 - 06/2017

Goal: Aimed to provide reliable information about urban traffic patterns to bring convenience to users such as governments and sellers. (52.3G track data).

- Pre-processed data of vehicle tracks by PostgreSQL and OpenStreetMap, including data cleansing, get road network from OSM and track correction;
- Provided information to generate heat map by using spatial grid index and FDBSCAN in "Popular Spot Discovery";
- Used shortest distance to project tracks onto the main roads we found, found traffic jam on different roads in different time with different color;
- Created velocity distribution histogram, used Bhattacharyya distance to calculate the difference between two histograms to find abnormal roads;
- Used spatio-temporal topology to grab abnormal events.

➤ Auto Exam System

01/2017 - 06/2017

Goal: Aimed to create a site for college students to get knowledge and entertainment at the same time.

- Managed the exams, accounts, friend lists and any other data by MySQL;
- Implemented user's information module, chatroom module, friend competition, and so on;
- Converted data to correct format for front-end visualization;
- Did black-box testing and white-box testing.

➤ Virtual network of routers

09/2017 - 10/2017

- Implemented link state routing using Dijkstra algorithm and Event-driven;
- Implemented distance vector routing using Bellman-Ford and Poisoned Reverse.

➤ CPU Simulator

10/2017 - 12/2017

- Simulated CPU work with several algorithms like SJF and RR, drew corresponding Gantt charts;
- Evaluated this CPU by calculating its throughput, running time and utilization.

➤ SITALK

08/2018 - 10/2018

- Created an online chatroom based on UDP socket programming;
- Used Swing and AWT for UI, used PostgreSQL for storing & managing data.