Xinyi Lu

Email: 576482020@qq.com   Tel: +1 267-764-9364

EDUCATION

University of Pennsylvania   Aug.2020-May.2022
M.S. in Computer and Information Technology, GPA:4.0   Philadelphia, U.S.
Courses: Data Structure and Software Design, Computer Systems Programming, Algorithms and Computation

University of Pennsylvania   Aug.2017-Aug.2018
M.S. in Social Policy, GPA:3.61   Philadelphia, U.S.
Courses: Quantitative Reasoning, Linear Modeling, Research and Evaluation

TECHNICAL SKILLS

- Languages: Java, JavaScript, C++, SQL
- Frameworks: React (Redux), Node.js, Spring Boot
- Web Technologies: HTML, CSS/Bootstrap
- Version Control: Git, Github
- Dataset: MySQL
- Deployment Tools: Heroku

PERSONAL/COURSE PROJECTS

MERN Stack E-commerce Web Application
- Built and designed interactive front-end user interface **using React, Redux and React-Bootstrap** library.
- Implemented Single-Page-Application (SPA) routing system to increase user browsing experience.
- Used Node.js/Express to build the back-end server, communicated data with MongoDB cloud database.
- Added token for users using JWT. Handled credit cards and received payments from users with PayPal API.

To-Do List Web Application
- Built interactive and responsive front-end user interface using **HTML/EJS/Bootstrap** and back-end server via **Node.js/Express**.
- Utilized MongoDB cloud database service to store/retrieve user data, implemented CRUD operations via mongoose.
- Implemented passport-google-oauth20 and add cookies/sessions by Passport.js to provide Authentication & Authorization through Google API.

Spring Boot-React Web Application – User management application
- Designed and created front-end using React and material-ui, managed API calls from React to Spring Boot.
- Followed **MVC** design pattern, built the Restful API via Spring Boot framework and managed the in-memory data flow.
- Conducted test using JPA Junit test and React Testing library.

Electronic Voting System C++
- Implemented server using multi-thread to deal with multiple instances of client concurrently.
- Created client program sending request to sever via the TCP socket programming protocol.

WORK EXPERIENCES

Shanghai Yunjiao Information Technology Co., Ltd.   Shanghai, China
A start-up providing IT related services to governments and universities.   Nov.2018- Dec.2019
Data Analyst/ Project Manager
- Prepared and customized **SRS** documents by self-learning, worked with software developers to implement changes from specification, and successfully launched the web apps support the clients' daily operations.
- Queried 100+ tables from preschool education database using **SQL**. Developed frameworks and processes to clean and transform incoming data for data pipelines to support back-end developer fetching data.
- Designed research/data analysis strategy, integrated **R-based** analysis to analyze data from nearly 100,000 questionnaires and **finished relevant reports independently within a constraint time schedule.**

The School District of Philadelphia   Philadelphia, U.S.
Intern, Department of Research and Evaluation   Jun. 2018 - Aug.2018
- Responsible for data cleaning, irregular data points detection, data calculation and visualization via Excel and R for different research projects.