Lei SU

leisu2019@gmail.com | (716)364-8181
Personal Webpage: suereey.com | Github: https://github.com/suereey

EDUCATION

Georgia Institute of Technology	*M.S. Computer Science* (GPA: 3.6)	02/2023 (expected)
University at Buffalo	*Ph.D. Environmental Engineering*	02/2022
University at Buffalo	*M.S. Environmental Science*	05/2016
Shenyang Pharmaceutical University	*B.S. Environmental Science*	06/2014

PROJECTS

Online Portfolio
- Built personal portfolio website (suereey.com) using **Vite**, **Boostrap5**, and customized **CSS**
- Utilized Github Page for hosting the website

Grocery Deliver System
- Lead a 5-member team developed a full-stack web application that organizes the grocery delivery system, where the access control, user auditability, and database connection were implemented
- Built the graphical user interface through **Vite (NodeJS)** and **Tailwind CSS**
- Implemented **Spring Boot** for backend algorithm. Created database using **PostgreSQL** with designed many-to-many data schema to store data
- Utilized **docker-compose** for the convenient system deployment
- Tested the application with **Postman** and **Insomnia REST Client**

House Price Forecasting
- Developed a full-stack website for users to visualize the historical house price data in the U.S. (hourse_price.suereey.com)
- Designed an interactive county level map to visualize the house price, covid cases, and unemployment rate using vanilla **JavaScript, HTML and CSS**, and **D3.js**
- Utilized **scikit-learn** machine learning framework to predict the future house price

Yelp Camp
- Built a review platform for campground sites with **Node.js**, **Express** and **MongoDB**, which allows camp hosts to post and delete the campgrounds, and users to post their reviews (link)
- Developed front-end with **Bootstrap** framework and **EJS** templates
- Implemented user authentication with **Passport.js**
- Improved the system security by using **Express Mongoose Sanitize** to prevent MongoDB operation injection; using **sanitize-html** to sanitizing the html input; and using **helmet**
- Deployed the app with **heroku** platform and **Mongo Atlas** production cloud database

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, HTML/CSS, Java
Toolkits: Git, GitHub, Docker, Bash, Linux, Virtualization, TCP/IP
Frameworks: BootStrap, Tailwind, ThreeJS, Vite, Vue, Angular Django, React, Node.js
Database/Cloud: SQL, MongoDB, AWS (S3)

SELECTED COURSEWORKS

Software Architecture and Design, Machine Learning, Reinforcement Learning, Computer Vision, Artificial Intelligence for Robotics, Data and Visual Analytics, Machine Learning for Trading.