Zihan Zhao

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EDUCATION

Northeastern University, San Jose, CA   Expected December 2023
Master of Science, Major in Information Systems   GPA: 4.0/4.0

University of Illinois at Urbana-Champaign, Champaign, IL   August 2016 - May 2020
Bachelor of Arts, Major in Economics   Dean's List 2019 - 2020

SKILLS

Languages: JavaScript, Java, Python, HTML, CSS, Shell, Markdown
Tools: React.js, Node.js, Express.js, MongoDB, Postman, Git, GitHub

PROJECTS & RESEARCH

Word Guessing Game (React, Node, REST API, Express) | GitHub   October - December 2022
- Built a word guessing game with **React**-based frontend and **Express**-based backend
- Designed **RESTful APIs** using **Express.js**, **Node.js**, **uuid**, and **cookie-parser** for client-side services including login session management and game activities. Implemented authorization, authentication, and proper error handling

Jellyfish Introduction Website (React, SPA) | GitHub   October – December 2022
- Built a **React**-based **Single Page Application** about Jellyfish. Implemented common web components including a drop-down hamburger menu, accordions, image cards, a modal form, and a form with conditional validations
- Demonstrated best practices on layout designs, ensured responsiveness/adaptiveness and accessibility

Sorting Algorithm Visualizer (JavaScript) | GitHub | Website   August 2022
- Built interactive and user-friendly **Vanilla JavaScript** application for visualizing sorting algorithms
- Implemented Bubble Sort, Selection Sort, Insertion Sort, Merge Sort, Quick Sort, and Heap Sort
- Designed complexity table, color explanations, and code block tracers to break down sorting logic

SF Crime & Rental Analysis (Python, NumPy, Pandas, Matplotlib) | Report   October - November 2021
- In a group of three, analyzed crime rates and rental prices between 2019-2021 in San Francisco County and calculated their correlations using **Python,** and made rental recommendations
- Cleaned, regrouped, and plotted crime data with 500k+ entries using **NumPy** and **Pandas**
- Visualized data with various visualization styles (e.g., bar and line chart, heatmap) using **Matplotlib**

WORK EXPERIENCE

Bank of Communications, Xi'an, China   June - August 2019
Businesses Loan Department Intern
- Reviewed and inspected businesses' operating conditions for loan approvals totaling 200M+ Yuan
- Resolved ad-hoc requests including complaints, visiting clients, and tracking the bank's key KPIs

China Vigor Drilling Oil Tools and Equipment Co., Ltd. Xi'an, China   June - August 2017
Manager Assistant Intern
- Immersed in a cross-regional team, accommodated foreign employees' visits, interpreted for business meetings, and translated business queries and documents