

Zihan Zhao

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EDUCATION

Northeastern University , San Jose, CA	Expected December 2023
<i>Master of Science, Major in Information Systems</i>	GPA: 4.0/4.0
Relevant Coursework: Data Structures & Algorithms, Java Fundamentals & OOPs, UI Design, Web Development	
University of Illinois at Urbana-Champaign , Champaign, IL	August 2016 - May 2020
<i>Bachelor of Arts, Major in Economics</i>	Dean's List 2019 - 2020

SKILLS

- **Languages:** JavaScript, Java, Python, HTML, CSS, Shell, Markdown
- **Tools:** VS Code, IntelliJ IDEA, Eclipse, Jupyter Notebook, Git, GitHub

PROJECTS & RESEARCH

Sorting Algorithm Visualizer (Personal) GitHub Website	Summer 2022
<ul style="list-style-type: none">• 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• Optimized animation effects for different sorting logics including swapping, inserting, and overriding• Developed complexity table, colored indicators, and code traces features to display more clear-cut views on the algorithm functionality	
Clear To-Do List App HTML Clone (Personal) GitHub Website	Fall 2022
<ul style="list-style-type: none">• Replicated the iOS to-do list app Clear using JavaScript that features interesting interactions on mobile devices based on framework Vue's creator Evan You's archived project• Implemented 8 gesture controls that allow users to simply use gestures to manage to-do events including swipe to complete/delete, tap to edit, pull down to create, long pull down to go back and forth between lists• Incorporated ES6 syntax and best practices of OOPs concepts in the design and structure process to reduce code complexity and improve readability which resulted in a 50% reduction in total lines of code from 5k to 2.5k	
Frontend Mentor Static Web Components (Personal) GitHub	Summer 2022
<ul style="list-style-type: none">• Built 10+ static web components using HTML, CSS, and JavaScript• Restored components such as preview card, landing page, and grid section based on design docs using flexbox and grid to practice website layout designs	
Image Management Tool (Academic) GitHub	Spring 2022
<ul style="list-style-type: none">• Built image processing application in Java with GUI that features metadata extraction and format conversion• Utilized JavaXT and metadata extractor package for backend image information extraction and format conversion and JavaFX package for GUI development	
San Francisco Crime & Apartment Rental Analysis (Academic) Report	Fall 2021
<ul style="list-style-type: none">• Analyzed the correlation between San Francisco crime and rental data in Python with two team members• Cleaned, regrouped, and plotted crime data with 500k+ entries using NumPy and Pandas• Visualized and ranked data with various visualization styles (e.g., bar and line chart, heatmap) using Matplotlib	

WORK EXPERIENCE

Bank of Communications , Xi'an, China	June 2019 - August 2019
<i>Businesses Loan Department Intern</i>	
<ul style="list-style-type: none">• Reviewed and inspected business revenues and debt levels for over 200-million-yuan loan approval processes• Resolved ad-hoc requests like managing clients' complaints, allocating deposits, and tracking bank's key KPIs	
China Vigor Drilling Oil Tools and Equipment Co., Ltd. Xi'an, China	June 2017 - August 2017
<i>Manager Assistant Intern</i>	
<ul style="list-style-type: none">• Communicated and managed two social media platforms to share ads and updates to acquired customers• Coordinated local and global employees to plan schedules, accommodate visitors, and translate documents	