

# Zihan Zhao

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## EDUCATION

<b>Northeastern University</b> , 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	
<b>University of Illinois at Urbana-Champaign</b> , 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

<b>Sorting Algorithm Visualizer</b> (Personal)   <a href="#">GitHub</a>   <a href="#">Website</a>	Summer 2022
<ul style="list-style-type: none"><li>• Built interactive and user-friendly Vanilla JavaScript application for visualizing sorting algorithms</li><li>• Implemented Bubble Sort, Selection Sort, Insertion Sort, Merge Sort, Quick Sort, and Heap Sort</li><li>• Optimized animation effects for different sorting logics including swapping, inserting, and overriding</li><li>• Developed complexity table, colored indicators, and code traces features to display more clear-cut views on the algorithm functionality</li></ul>	
<b>Clear To-Do List App HTML Clone</b> (Personal)   <a href="#">GitHub</a>   <a href="#">Website</a>	Fall 2022
<ul style="list-style-type: none"><li>• 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</li><li>• 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</li><li>• 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</li></ul>	
<b>Frontend Mentor Static Web Components</b> (Personal)   <a href="#">GitHub</a>	Summer 2022
<ul style="list-style-type: none"><li>• Built 10+ static web components using HTML, CSS, and JavaScript</li><li>• Restored components such as preview card, landing page, and grid section based on design docs using flexbox and grid to practice website layout designs</li></ul>	
<b>Image Management Tool</b> (Academic)   <a href="#">GitHub</a>	Spring 2022
<ul style="list-style-type: none"><li>• Built image processing application in Java with GUI that features metadata extraction and format conversion</li><li>• Utilized JavaXT and metadata extractor package for backend image information extraction and format conversion and JavaFX package for GUI development</li></ul>	
<b>San Francisco Crime &amp; Apartment Rental Analysis</b> (Academic)   <a href="#">Report</a>	Fall 2021
<ul style="list-style-type: none"><li>• Analyzed the correlation between San Francisco crime and rental data for rental recommendations in Python with two team members</li><li>• Cleaned, regrouped, and plotted crime data with 500k+ entries using NumPy and Pandas</li><li>• Visualized and ranked data with various visualization styles (e.g., bar and line chart, heatmap) using Matplotlib</li></ul>	

## WORK EXPERIENCE

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