

# 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 OOPs, Web Frontend & Backend 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, Node.js, Express.js

## PROJECTS & RESEARCH

<b>Bookshelf</b> (Personal)   <a href="#">GitHub</a>   <a href="#">Website</a>	October 2022
<ul style="list-style-type: none"><li>Built concise <b>JavaScript</b> application for looking up books online with bookmark function and dark mode</li><li>Utilized the <b>Google Books API</b> to allow users to search books based on various keyword types and return informative book cards for users to browse</li><li>Incorporated the Model-View-Controller (<b>MVC</b>) design pattern and <b>OOP</b> class design to achieve an organized, robust, and easy-to-maintain code structure</li></ul>	
<b>Clear To-Do List App HTML Clone</b> (Personal)   <a href="#">GitHub</a>   <a href="#">Website</a>	September - October 2022
<ul style="list-style-type: none"><li>Replicated the iOS to-do list app Clear using <b>JavaScript</b> 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 <b>ES6</b> syntax and best practices of <b>OOPs</b> concepts in the design and structure 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>Sorting Algorithm Visualizer</b> (Personal)   <a href="#">GitHub</a>   <a href="#">Website</a>	August 2022
<ul style="list-style-type: none"><li>Built interactive and user-friendly <b>Vanilla JavaScript</b> application for visualizing sorting algorithms</li><li>Implemented Bubble Sort, Selection Sort, Insertion Sort, Merge Sort, Quick Sort, and Heap Sort</li><li>Developed complexity table, colored indicators, and code traces features to display more clear-cut views on the algorithm functionality</li></ul>	
<b>Image Management Tool</b> (Academic)   <a href="#">GitHub</a>	April 2022
<ul style="list-style-type: none"><li>Built image processing application in <b>Java</b> with <b>GUI</b> 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>	October - November 2021
<ul style="list-style-type: none"><li>Analyzed the correlation between San Francisco crime and rental data for rental recommendations in <b>Python</b> with two team members</li><li>Cleaned, regrouped, and plotted crime data with 500k+ entries using <b>NumPy</b> and <b>Pandas</b></li><li>Visualized and ranked data with various visualization styles (e.g., bar and line chart, heatmap) using <b>Matplotlib</b></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 200M Yuan loan approval processes</li><li>Resolved ad-hoc requests including managing 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>	