

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, OOD in Java, Web Frontend & Backend 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, Node.js, Express.js, MongoDB, Postman

PROJECTS & RESEARCH

Bookshelf (Personal) GitHub Website	October 2022
<ul style="list-style-type: none">Built concise JavaScript application for looking up books online with bookmark function and dark modeUtilized the Google Books API to allow users to search books based on selections of keyword types and to generate informative book cards for users to browseIncorporated the Model-View-Controller (MVC) design pattern and OOPs to achieve an organized, robust, and easy-to-maintain code structure	
Clear To-Do List App HTML Clone (Personal) GitHub Website	September - October 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 projectImplemented 8 gesture controls that allow users to simply use gestures to manage to-do events such as swipe to complete/delete event, tap to edit content, and long pull down to switch between listsIncorporated ES6 syntax and best practices of OOP concepts in the design of structures to improve readability and reduce code complexity followed by a 50% reduction in total lines of code from 5k to 2.5k lines	
Sorting Algorithm Visualizer (Personal) GitHub Website	August 2022
<ul style="list-style-type: none">Built interactive and user-friendly Vanilla JavaScript application for visualizing sorting algorithmsImplemented Bubble Sort, Selection Sort, Insertion Sort, Merge Sort, Quick Sort, and Heap SortDeveloped complexity table, colored indicators, and code traces features to break down each sorting logic and highlight differences between them	
Image Management Tool (Academic) GitHub	April 2022
<ul style="list-style-type: none">Built image processing application in Java with GUI that features metadata extraction and format conversionUtilized 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	October - November 2021
<ul style="list-style-type: none">Analyzed the correlation between San Francisco crime and rental data for making rental recommendations in Python with two team membersCleaned, regrouped, and plotted crime data with 500k+ entries using NumPy and PandasVisualized 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 200M Yuan loan approval processesResolved ad-hoc requests including managing 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 customersCoordinated local and global employees to plan schedules, accommodate visitors, and translate documents	