

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 OOPs, 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

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 modeUtilize the Google Books API to allow users to search books based on various keyword types and return informative book cards for users to browseIncorporated the Model-View-Controller (MVC) design pattern and OOP class design 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 including swipe to complete/delete, tap to edit, pull down to create, long pull down to go back and forth between listsIncorporated ES6 syntax and best practices of OOPs 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	
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 display more clear-cut views on the algorithm functionality	
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 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	