

# Zihan Zhao

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## EDUCATION

**Northeastern University**, San Jose, CA

Expected December 2023

*Master of Science, Major in Information Systems*

GPA: 4.0/4.0

Relevant Coursework: Data Science with Python, Java Fundamentals, Java OOPs, UI Design, Web Development

**University of Illinois at Urbana-Champaign**, Champaign, IL

August 2016 - May 2020

*Bachelor of Arts, Major in Economics*

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 & REASEARCH

**Sorting Algorithm Visualizer** (Personal) | [GitHub](#) | [Website](#)

Summer 2022

- 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 App HTML Clone** (Personal) | [GitHub](#) | [Website](#)

Fall 2022

- Replicated the iOS to-do 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

- 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

- 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

- 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

## INTERNSHIPS

**Bank of Communications**, Xi'an, China

June 2019 - August 2019

*Businesses Loan Department Intern*

- 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

*Manager Assistant Intern*

- 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