

JOHN HOUSER

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EDUCATION

University of California, Los Angeles (UCLA) Los Angeles, California

Expected June 2023

B.S. Computer Science

- **Cumulative GPA:** 3.69

- **Relevant Coursework:**

CS31 Intro to Comp Sci

CS32 Fundamentals of Comp Sci

CS33 Computer Architecture

CS180 Algorithms

CS35L Software Tools

CS111 Operating Systems

CS174A Computer Graphics

CS143 Databases

CS118 Networking

PROJECTS

HouserJohn.com

August 2020 - Present

Sole Developer

- Independently created the website to house my projects
- Designed the front end of the website using React, Typescript, and Tailwind CSS
- Maintained hosting for the website and registered the domain name
- Fully responsive to every screen size that may visit the site

Sorting Visualizer

July 2021

Sole Developer

- Developed a tool to visualize sorting algorithms like Insertion, Bubble, Selection, Quick, Heap, Radix, and Merge sort.
- Created a toolbar and playback interface to control the speed of the animation using React and Redux
- Constructed the visualizer using React, Typescript, and Styled Components
- Choose the size of the array to be sorted, randomize the starting values, choose your sorting algorithm, and watch the algorithm go to work

Recreationists

April 2021

Team of 4 Developers

- Reconstructed a virtual portion of UCLA while we were remote
- Interactive multiplayer experience on CS174A.com that allows you to explore parts of the campus
- Independently developed the collision detection, all networking, and the physics of the experience
- Created the backend using socket.io and express while using heroku for hosting

RESEARCH

Machine Learning Lab Scalable Analytics Institute

Feb 2020 - Present

Undergraduate Researcher

- Worked on a remote server to train machine learning models
- Worked with a team to create a tag recommender for posts on StackOverflow.com
- Sanitized data to use in machine learning models
- Contributed to NLP models by writing trivial solutions to various problems
- Annotated training data for sentiment classification that will be released publicly

PUBLICATIONS

NLP Research UCLA ScAi

2021

- Zeyu Li, Wei Cheng, Reema Kshetramade, **John Houser**, Haifeng Chen, Wei Wang. Recommend for a Reason: Unlocking the Power of Unsupervised Aspect-Sentiment Co-Extraction.
- In The 2021 Conference on Empirical Methods in Natural Language Processing: Findings

TECHNICAL SKILLS

Skills

- **Compiled**— C (intermediate), C++ (intermediate), Java (intermediate)
- **Interpreted**— Python (intermediate), Lua (advanced), JavaScript (intermediate), Bash (intermediate)
- **Markup**— HTML (intermediate), CSS (intermediate), \LaTeX (intermediate)
- **Version Control**— Git (intermediate)
- **Web**— React (intermediate), Redux (intermediate), TypeScript (intermediate)