

Jonathan Wang

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EDUCATION

University of Illinois at Urbana-Champaign

August 2020 - May 2024

B.S. in Computer Science & Mathematics | Minor in Statistics

GPA: 3.99/4.00

Awards: Campus Honor - James Scholar Program | Dean's List

Certifications: AWS Certified Cloud Practitioner | Illinois Leadership Certificate

EXPERIENCES

PeopleWeave Project - Caesar Research Group

September 2023 - Present

Undergraduate Researcher

Champaign, IL

- Developed an interactive coauthorship network graph using React and visualizing library.
- Developed graph algorithms to support filtering and enhance searching functionalities.

CS 411 - Database Systems

August 2023 - Present

Course Assistant

Champaign, IL

- Facilitated in-class discussion activities with 300+ students.
- Assisted in answering student's questions on course forums and grading homework.

ATLAS - College of Liberal Arts & Sciences

August 2022 - January 2023

Web Development Intern

Champaign, IL

- Redesigned spotlight page for ATLAS website using HTML/CSS and WordPress.
- Added new functionalities and updated faculty websites using HTML/CSS and WordPress.

PROJECTS

Personal Website | React

- Created a responsive personal portfolio website deployed on GitHub Pages using React.

Airbnb Review Website | React, Node.js, Express, MongoDB

- Developed a full-stack web application with Express serving as REST API and React as frontend.
- Created a simple display of Airbnb that supported advanced query using Bootstrap.
- Implemented login functionality and CRUD to allow searching and changing reviews.

Youtube Trending Query System | JavaScript, Node.js, Express, MySQL

- Developed a web application with Express serving as REST API and JavaScript as frontend.
- Designed and hosted a MySQL database on Google Cloud Platform with 10000+ entries.
- Supported query and CRUD functionalities that performed updates to the cloud database.

Discord Bot | Python, MongoDB

- Implemented an interactive discord bot that played a mathematical game called nim.
- Trained the computer using reinforcement learning and stored the match records into the database.

SKILLS

- **Programming Languages:** Python, C/C++, Java, JavaScript, HTML/CSS, R, MatLab
- **Frameworks:** Node.js, Express, Flask, Bootstrap
- **Database:** MySQL, MongoDB, Neo4J
- **Developer Tools:** Git, Google Cloud Platform, AWS, Unix/Linux, Docker, VS Code, IntelliJ, WordPress
- **Libraries:** React, TensorFlow, PyTorch, Scikit-Learn, NumPy, SciPy, pandas, Matplotlib
- **Languages:** English, Mandarin (Native)