

Hong Wang

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Education

Stony Brook University *M.S., Computer Science* **Feb 2021 - Dec 2022**
Relative Courses: ML, AI, Data Mining, Algo & Data Structures, Computer Vision *Stony Brook, NY*

Hohai University *B.S., Computer and Information Science* **Sep 2016 - Jun 2020**
Relative Courses: Operating Systems, Intro to Database, C++ *Nanjing, China*

Experience

Shengang Securities Co., Ltd. **Dec 2019 - Feb 2020**
Research Assistant Intern *Nanjing, China*

- Monitored mass analysis issues to calibrate specific values for determining user interface involvement with the company's website.
- Assisted senior employees by processing numerous work requests to upgrade network features and provide future improvements for ease of accessibility for customers.
- Collaborated with 3 interns to write weekly reports and provide feedback on responses for the on-going research of the models to improve the quality.

Individual Projects

A Full-Stack MERN E-commerce App | (React, Node.js, Express, MongoDB, JavaScript) **Jun - Jul 2022**

- Utilized JSX/Styled-Components/Material-UI, React.js to design the front-end UI of an e-commerce website.
- Built Restful APIs with Node.js(express)/MongoDB, handled HTTP requests and responses, created CRUD operations to fetch data with queries.
- Utilized Redux Toolkit to manage application states and asynchronous redux actions.
- Implemented JWT to create user authentication, improve security and verify requests.

Meal Recipe Finder App | (HTML, CSS, JavaScript, API) **May 2022**

- Created a website for meal recipe finds for users to access meal recipes by entering key ingredients.
- Implemented front-end App UI design with HTML/CSS.
- Utilized React.js, React Router and Material-UI to build website interface.

Amusement Park Game | (Unity, C#, VR) **Apr - May 2022**

- Designed a 3D virtual amusement park with Dinosaur theme using Unity3D.
- Embedded a program which allowed users to ride a roller coaster or ferris wheel within the game.
- Created a Day and Night feature to present a first-person and third-person view for the user experience

Django & Bootstrap Blog and Translator App | (Django, Python, HTML, SQLite, RESTful API) **Mar 2022**

- Created a blog feature with an admin interface, implemented UI design with HTML/CSS/Bootstrap.
- Designed a translator app where people can translate text from English to Chinese.
- Built RESTful API with Django/SQLite to handle HTTP requests and responses.

Course Projects

Transfer Learning based Unsupervised Segmentation | (ML, Python) **Nov 2021 - Jan 2022**

- Explored the suitability of feature representations from deep neural networks trained on generic datasets, and methods for generating segmentations from representations in a fully unsupervised manner.

Probabilistic Verification of Network Properties | (Computer Network) **Nov 2021 - Jan 2022**

- Analyzed NetDice's performance for different real-world topologies with synthetic configurations.
- Discussed a new method of reducing the algorithm runtime at little expense of the final precision.

Skills

Operating systems: Windows, Linux, MacOS

Programming Languages: Python, JavaScript, HTML, CSS, SQL, Java, C#

Framework and libraries: React, Node.js, Next.js, Express, SASS, JQuery, MongoDB, Django, AWS, MySQL, Unity, PyTorch, OpenCV, Scikit-Learn, Git

Languages

Chinese(Mandarin): Fluent **English: Fluent**