

Ruijia Hua

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EDUCATION

University of California, Irvine

Sept 2019 - June 2023

- B.S. in Software Engineering
- GPA: 3.6 — Dean's Honors List for 3 quarters

PUBLICATION

X. Dong and R. Hua, "GAN Based Image Inpainting Methods: A Taxonomy," 2022 3rd International Conference on Electronic Communication and Artificial Intelligence (IWECAI), 2022, pp. 145-150, doi: 10.1109/IWECAI55315.2022.00037.

EXPERIENCE

Bosch | Unpaid Assistant

July 2021 – Sept 2021

- Worked with different teams in an Agile working environment to write searching algorithms for database.
- Used Python and SQL as tools to sort, search, and analyze data.
- Learned the basic knowledge of database.

Mutation Testing Research Program | Assistant

Apr 2022 – Present

- Assisted Professor and Graduate Students to visualize the result generated by mutation testing.
- Studied the XML files generated by mutation testing and visualize them using Networkx.
- Built a similarity algorithm that compares the original code to the mutated code and generates a similarity percentage.

Machine Learning Research Program | Assistant

Oct 2021 – Jan 2022

Supervised by Professor Vogelsberger from MIT

- Studied the fundamental knowledge of machine learning and tools such as Scikit-Learn, Pytorch, TensorFlow
- Trained models and integrated them into a program to generate the face under the mask using Generative Adversarial Network (GAN).
- Studied the advantages of different machine learning models from other people's research.

UCI Sue and Bill Gross Stem Cell Research Center | Web Dev Assistant

July 2022 – Present

- Developed and maintained the website for UCI Sue and Bill Gross Stem Cell Research Center using HTML, CSS, and JavaScript.

PROJECTS

Gesture Controlled Curtain

Apr 2022 - Jun 2022

Backend

- Used machine-learning tool Mediapipe to capture hand gestures in order to control the curtain.
- Used Flask as a tool to communicate between frontend and backend.
- Learned to use Raspberry Pi as a host to connect the software to the hardware.

Frontend

- Developed the website for the product in order to allow users to control the curtain on their phone.

Product UI Design

Jan 2022 – Mar 2022

- Participated in designing the UI of a decision-making app called DELFI using Figma. ([Link to the prototype](#))
- Participated in designing the UI of the website for the app using Wix. ([Link to the website](#))

SKILLS

Python, Java, JavaScript, HTML, CSS, C++, SQL, Figma