

Zihui Yuan

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EDUCATION

Washington University in St. Louis

St. Louis, MO, USA

Master of Science in Information System Management

01/2022-05/2023 (expected)

- **GPA:** 3.76/4.0
- **Main Courses:** Python, Java, AI, Information Systems, Cybersecurity, Neural Networks

The University of California, Irvine

Irvine, CA, USA

Bachelor of Science in Informatics

08/2017-12/2021

- **Honors:** Dean's list for Autumn 2020

PROJECT EXPERIENCE

Portfolio Website Development (personal project)

12/2022-01/2023

- **Backend Development:** Create a Backend with Django and python to allow me to upload personal information which needed to show on the Frontend. Made easier to change any information.
- **Frontend Development:** Developed a Frontend by using a free template online that used HTML, CSS, and JavaScript. Replaced the template's personal information with the backend user's personal information. Showed a clear view.

Avatar Creation System (school project)

01/2021-06/2021

- **Project Preparation and Execution:** Sketched the Frontend of applications via Figma.
- **Front-end development:** Developed the user sign-up, log in, and main page of the application by using JavaScript and React. Implemented the primary function of Frontend to allow users to upload images and videos to back end via API and then generate a list of user's avatars which satisfy the third-party company.

Data Operation (school project)

01/2023 -05/2023

- **Data cleaning:** Use python and isolation forest model to find outliers. And replace the outlier with N\A value, then use a neural network to get predicted value and replace the N\A value by using Keras, TensorFlow, and Python. And the average MSE that a lower value means higher accuracy for all outliers is around 0.4.

Research Paper(School Research Paper)

02/2022-06/2022

- **Cybersecurity Research Paper:** Analyzed root cause, direct cause, alternative solutions, and recommendation for some companies' case studies.
- **Information Systems Research Paper:** Design a plan which to set up a new database and relocate data without affecting the whole system.
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INTERNSHIP EXPERIENCE

Alibaba Group

Hangzhou, China

Data Internship

12/2020-3/2021

- **User and Market Analysis:** Analyzed the needs of the hardware of the desktop for target customers. Research the customers' needs with some interview questions.
- **Design:** Designed the online pc component store blueprint and completed related prototypes timely which included product searching, ranking, and key indicator comparison to facilitate customer decisions via Figma.
- **Product Design Development:** Used Figma to draw 3d simulation scenarios based on customer installation conditions to offer a direct display for customers effectively.

Institute of Software Chinese Academy of Sciences

Beijing, China

Lab Assistant

08/2020-12/2020

- **Proof of Concept:** Collaborated with senior partners to advance crawler function development in different static websites by adding different languages via Python, which improved working efficiency by 20%.
- **Function Expansion and Optimization:** Led the team to advance the new function development of the Arabic language crawler and optimized the word segmentation results via NLTK natural language processing.

SKILLS & INTERESTS

IT Skills: Proficient in Python, Java, C, html, JavaScript, CSS, TensorFlow, Django, Keras; Basic in SQL, React, R

Languages: Mandarin (native); English (fluent)

Interests: Fitness, Basketball, Traveling