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

- **GPA:** 3.83/4.0
- **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

SKILLS & INTERESTS

IT Skills: Python, Java, C, html, JavaScript, CSS, FastAPI, Django, PostgreSQL, SQL, React, SQLAlchemy, Git, Keras

PROJECT EXPERIENCE

Python API development (Personal Project)   03/2023-04/2023
- **API Development**: Built CRUD API and user authorization token by using python and FastAPI.
- **Database Development**: Built SQL database with PostgreSQL and used ORM SQLAlchemy to deal with a database.
- **Deployment**: Deployed the API on Linux machine and used GitHub to build CI/CD pipeline.
- **FastAPI Documentation Link**: https://zihui.xyz/docs

Portfolio Website Development (Personal Project)   12/2022-01/2023
- **Backend Development**: Created 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.
- **Deployed Web:** Used Heroku and GitHub to deploy the web.

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.

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**: Implemented the new function development of the Arabic language crawler and optimized the word segmentation results via NLTK natural language processing.