

Yixuan Ye

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EDUCATION

University of Wisconsin - Madison

Madison, WI

Bachelor of Science - Computer Science; GPA: 4.00

Sep 2020 - May 2024

Bachelor of Science - Data Science; GPA: 4.00

Courses: Discrete Math, Data Structures, Algorithms, Linear Algebra, Machine Organization, Operating System, Artificial Intelligence, Data Programming, Statistical Modeling, Parametric and Nonparametric statistics, Java Programming, Computer Networks, Databases

SKILLS SUMMARY

- **Languages:** Java, Python, R, JavaScript, Typescript, C, SQL, HTML, CSS, Go
- **Frameworks:** Spring Boot, Spring Cloud, Tidiverse, Numpy, Pandas, PyTorch, React, Vue, JQuery, Gin
- **Tools:** MySQL, Redis, Docker, Git, SQLite, Nginx, Jenkins, Linux, Maven, Mybatis, Vault, Node.js
- **Soft Skills:** Leadership, Communication, Team Working, Task Scheduling & Management

WORK EXPERIENCE

Dell Technologies.

Round Rock, Texas

Software Engineer Intern at ISG (Full-time)

May 2023 - Aug 2023

- **Green QoS on Storage:** Built a model to predict IOPS on the storage device for power saving
- **Data Cleaning:** Used PostgreSQL as the DB and performed data cleaning
- **Model Construction:** Implemented the transformer model for predicting the time series data
- **Data Visualization:** Utilized Numpy/Pandas/Pyplot for the data visualization based on the storage data.
- **Impact:** Saved Dell's PowerMax and other storage system energy consumption while not losing customers' performance

Dell Technologies.

Round Rock, Texas

Software Engineer Intern at Apex Engineering (Full-time)

June 2022 - Aug 2022

- **Automation of Service Account Rotation:** Built an automation program to reduce the steps and time costs for service account rotation
- **REST API & Python:** Used Python to make API calls and make computation based on Data
- **SDL:** Interact with HashiCorp Vault and other app safes to automate the management of secrets
- **CI/CD:** Utilized Jenkins as the CI/CD Pipeline to achieve the automation process
- **Impact:** Decreased the efforts to rotate the service accounts

Shibing Technologies.

Remote

Full-stack Developer; Manager (Part-time)

Jul 2020 - Apr 2021

- **College Information System:** Implemented an college information system for Chinese students
- **Data Process:** Extract and process data from JSON using Python and put data into App's database
- **Full-Stack Development:** Developed the database, backend, frontend, and data visualization parts of the project using MySQL, Spring, Vue, and Echarts.
- **Manage & Communication:** Collaborated with finance branch members and prepare demo for potential investors.
- **Impact:** Developed an college information web application which benefits many high school students in China.

RESEARCH EXPERIENCE

Carla Undergraduate Researcher

Remote

Researcher

Fall 2022

UW-Madison, Sensing group

- Transferred the KITTI dataset format to COCO style
- Conducted a transfer learning using pre-trained DETR model with KITTI dataset
- Implemented the object detection with DETR on new weights into the CARLA simulator
- Discussed findings and potential future applications with other researchers, professors, and peers.

Ecology Analysis on Species Interaction

Remote

Researcher

Spring 2019

Advisor: Dr. David Shanafelt

- Performed a statistical analysis on species interactions across space and climate
- Conducted literature review on the related topic
- Analyzed global host-parasitoid data (from Galiana) using R
- Presented findings in a research report

PROJECTS

- **ShareME - File/URL/Note Sharing APP** May 2023 - June 2023
 - **Backend:** Built LevelDB database, used GoLang and Gin as backend.
 - **Frontend:** Utilized Vue3 + Vite + Naive UI and aesthetic self design.
 - **Deploy:** Deployed the APP to Oracle Instance and set up Nginx Reverse Proxy and domain service.
 - **Impact:** Reached a total of 60 Users and Questions
- **Photoly - Photo Host & Share Application** May 2022 - Aug 2022
 - **Backend & Frontend:** Implemented MySQL & Redis databases, Spring backend REST API, React Typescript + Chakra UI frontend
 - **CI/CD & Deploy:** Created a Jenkins Pipeline for CI/CD and deploy the application on cloud Service
- **EchoQ - Anonymous Question Box** May 2022 - July 2022
 - **Backend:** Built MySQL & Redis databases, Spring Boot backend, and token authorization functionalities
 - **Deploy:** Deployed the APP to Oracle Instance and set up Nginx Reverse Proxy & Load Balancer
 - **Impact:** Reached a total of 60 Users and Questions
- **Laptop Selling Prediction** Apr 2021
 - **Summary:** Constructed ML model for predicting users' actions using browsing data
 - **Methods:** Implemented a classification model using scikit-learn Pipeline with polynomial features and standard scaler. Used Pandas to preprocess data
 - **Impact:** Achieved 93.34% accuracy on the test set
- **CBR Market Platform** Dec 2021
 - **Summary:** CBR Market is an online e-commerce platform
 - **Backend:** Built MySQL databases, Spring Boot backend, and utilized Sa-Token for authentication
 - **Frontend:** Constructed an web application using React.js + Material UI

CERTIFICATES

- **Neural Networks and Deep Learning - Coursera:** CMAFWPAM996C
- **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization - Coursera:** YLMT5ECC8UPA
- **Convolutional Neural Networks - Coursera:** ZLTATTZPW257
- **Structuring Machine Learning Projects - Coursera:** DVNP5ZYW9LWN
- **Build Basic Generative Adversarial Networks (GANs) - Coursera:** EZVVXRTJUF2J
- **Build Better Generative Adversarial Networks (GANs) - Coursera:** U8FR36TQLSFX

HONORS AND AWARDS

- Dean's List - Sep, 2020 to Present