Yixuan Ye

LinkedIn: yixuan-ye-4883391b4 Github: github.com/Harold-y

EDUCATION

University of Wisconsin - Madison

Bachelor of Science - Computer Science; GPA: 4.00

Bachelor of Science - Data Science; GPA: 4.00 Courses: Discrete Math, Data Structures, Algorithms, Linear Algebra, Calculus, Machine Organization, Operating System, Artificial Intelligence, Data Programming, Statistical Modeling, Parametric and Nonparametric statistics, Java Programming, Computer Networks, Databases, Information Security

SKILLS SUMMARY

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

WORK EXPERIENCE

_	Dell Technologies.	Hopkinton, MA	
0	Software Engineer I (Full-time)	Feb 2024	
	• Trident Argonauts Team: Work as a full time software engineer		
~	Dell Technologies.	Round Rock, Texas	
0	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			
	$\circ~$ Data Cleaning: Used PostgreSQL as the DB and performed data cleaning		
	 Model Construction: Implemented the LSTM and Informer model for predicting the time series data Policy and Visualization: Built policy for each PowerMax customer and enabled policy visualizations Impact: Developed GreenQoS that helps Dell to achieve net zero, reduce 2.5K CO2 emissions each year, save on avera 2800 Kwh power for each system per year. 		

Dell Technologies.

- Software Engineer Intern at Apex Engineering (Full-time)
 - 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. 0

- Full-stack Developer; Manager (Part-time)
 - 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

- Researcher
 - UW-Madison, Sensing group
 - Transferred the KITTI dataset format to COCO style 0
 - Conducted a transfer learning using pre-trained DETR model with KITTI dataset 0
 - Implemented the object detection with DETR on new weights into the CARLA simulator 0
 - Discussed findings and potential future applications with other researchers, professors, and peers.

Ecology Analysis on Species Interaction

Researcher

Advisor: Dr. David Shanafelt

- Performed a statistical analysis on species interactions across space and climate 0
- 0 Conducted literature review on the related topic
- 0 Analyzed global host-parasitoid data (from Galiana) using R
- Presented findings in a research report 0

Madison, WI Sep 2020 - Dec 2023

Round Rock, Texas June 2022 - Aug 2022

Remote

Jul 2020 - Apr 2021

Remote

Remote

Fall 2022

Spring 2019

Projects

Photoly - Photo Host & Share Application May 2022 - Feb 2024 0 • Backend & Frontend: Implemented MySQL & Redis databases, Spring Boot REST API backend, Vue3 + NaiveUI frontend • CI/CD & Deploy: Created a Jenkins Pipeline for CI/CD and deploy the application on cloud Service • Containerize: Created a series of Dockerfiles and enable the docker-compose to build the project with one command • Photo Detail: Users are able to share the photo/video, see EXIF info, GPS location map, add to album/tag, etc. Chinese Poetry Collection - Database of Chinese Poetry/Web APP Sep 2023 - Dec 2023 0 • Database: Transfer messy JSON files to a unified MySQL database, using Python for data cleaning and database operations. • Backend: Utilized Flask backend framework using Python. • Frontend: Programmed using Vue 3 + Naive UI, deployed on an Oracle cloud instance, and used NginX as a reverse proxy. • Impact: Collected over 25 Stars at GitHub and was merged into the showcase section of the original repository (with 45.8k stars) May 2023 - June 2023 ShareME - File/URL/Note Sharing APP • 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 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

- $\circ~$ Dean's List UW-Madison: Sep, 2020 to Dec, 2023
- Graduated with Distinction UW-Madison: Dec, 2023
- $\circ~$ Distinction in the Major UW-Madison: Dec, 2023