

Yun(Amber) Du

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Targeting **Software Development(Front-End & UI/UX) & Data Science** Fulltime Positions Starting from May 2024

Experience

AECOM | aecom.com

Aug. 2023 – Jan. 2024

Transportation Software & Data Science Intern — Javascript, Python, Vue.js, Echarts, Node.js, PgSql *Orlando, FL*

- **Dynamic Transportation Data Visualization:** Developed and implemented a dynamic transportation data visualization using **ECharts**, **Axios**, and **Vue.js/Vite** which included **48** interactive charts and showcased over **35,000** data points, enabling seamless frontend and backend data presentation
- **Front-end Interface Development:** Independently designed and developed the frontend interface for a website utilizing the **Vue.js/Vite** framework, **Element Plus** and **Tailwind CSS** coding in **JavaScript**, consisting of **3** main pages with approximately **20** interactive elements
- **Traffic Data Analysis:** Extracted traffic data using **SQL** and conducted in-depth analysis using **Python**. Analyzed more than **70,000** records, including vehicle and pedestrian crashes, travel times, traffic volume
- **Collaboration with FDOT(Florida Department of Transportation):** Collaborated with Florida Department of Transportation's Traffic Safety, ITS, Traffic, and TMC Operations teams on technical support for a total of five different projects

US Cabinet Depot | uscabinetdepot.com

May 2023 – Aug. 2023

IT Intern — SQL, Oracle NetSuite, MySQL, VitePress, Git/Github, Magento, Celigo, BaseCamp *Marietta, GA*

- **Financial Report Generation:** Provided crucial technical support to the accounting department by generating and delivering **20** comprehensive financial monthly reports. Generated, managed and maintained over **10,000** inventory data in **Oracle(NetSuite)** and **MySQL** using **SQL**
- **App User-Guides Development:** Developed user guides for an Application and a Web platform, totaling **2** comprehensive user guides, which were utilized by a user base of **250** employees within the company. Built these guides using **Vitepress** and maintained version control with **Git/GitHub**
- **Data Error Resolution:** Successfully utilized **Celigo** to proactively resolve and troubleshoot daily errors between **Oracle NetSuite** and **Magento**, ensuring the smooth operation of warehouse business processes. Resolved an average of **15** errors per day
- **International IT Collaboration:** Collaborated effectively with international IT teams through weekly meetings on **Basecamp** to manage and oversee over **20** tickets, facilitating cross-border communication and project coordination

Texas A&M Engineering Experiment Station | tees.tamu.edu

May 2022 – Dec. 2022

Student Assistant — Python, Machine Learning, Deep Learning, Linux *College Station, TX*

- **Digital Signal Dataset Preparation:** Collaborated with the lab team to prepare a dataset of over **35,000** digital signal samples using **LabelImg** on **Ubuntu**
- **Transformer Model Optimization:** Configured the environment and fine-tuned hyperparameters for training a transformer model on predicting radar spectrum occupation dataset using **TAMU HPRC(Linux)**
- **Test Accuracy Improvement:** Achieved a significant **15%** increase in test accuracy over baseline by carefully selecting an optimal hyperparameter combination and conducting thorough testing on the model

Skills

Programming Languages: Python, Java, SQL, JavaScript/Typescript, HTML5/CSS3

Frameworks & Libraries : React.js, Vue.js/Vite, Node.js, Express, Element Plus, Tailwind CSS, Echarts, Numpy, Pandas

Databases: Oracle(NetSuite), MySql, Redis, PostgreSQL

System & Tools: Linux, Vim, Git/GitHub, Heroku, IntelliJ IDEA, VS Code, Photoshop, GIS

Education

Texas A&M University

Aug. 2022 – May 2024

Master of Science, Computer Engineering - Computer Science Track

College Station, TX

- *GHC'23 Scholarship, Grad Pgm Fee/Schol-Fellowships, COSC Graduate Program Scholars*

Zhongnan University of Economics and Law

Sep. 2016 – June 2020

Bachelor of Management Science, Accounting

Wuhan, China

Bachelor of Management Science, Project Cost