

# Yun(Amber) Du

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Targeting **Data Analyst / Data Engineer Full-time** Positions Starting from **May 2024**

## Education

### Texas A&M University

Aug. 2022 – May 2024

*Master of Science, Computer Engineering - Computer Science Track*

*College Station, TX*

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

- **Relevant Courses:** Data Mining & Analysis, Machine Learning, Deep Learning, Analysis of Algorithms, Transportation Engineering, Traffic Engineering: Operations(Signal Control), Cloud Computing

### Zhongnan University of Economics and Law

Sep. 2016 – June 2020

*Bachelor of Management Science, Construction Engineering Management & Accounting*

*Wuhan, China*

- **Awards:** National Second Level Scholars, Sports Scholarships

- **Relevant Courses:** Engineering economics, Real estate economics, Microeconomics, Macroeconomics, Introduction to urban planning

## Experience

### AECOM | [aecom.com](https://aecom.com)

Aug. 2023 – Jan. 2024

*Data Science Intern — Python, Javascript, Vue/Vite, TailwindCss, Echarts, Node.js, Git*

*Sanford, FL*

- **Dynamic Data Visualization:** Developed and implemented a dynamic transportation data visualization using **ECharts**, **Axios**, and **Vue/Vite** which included **7** interactive charts and showcased over **35,000** data points, enabling seamless frontend and backend data presentation
- **Data Analysis:** Extracted traffic data using **SQL** and conducted in-depth analysis using **Python**, analyzed more than **60,000** records, including vehicle and pedestrian crashes, travel times, traffic volume
- **Front-end Interface Development:** Independently designed and developed the frontend interface for a website utilizing the **Vue/Vite** framework, **DataV** and **TailwindCSS** coding in **JavaScript**, consisting of **3** main pages with approximately **20** interactive elements
- **Collaboration with FDOT(Florida Department of Transportation):** Collaborated with Florida Department of Transportation's Traffic Safety and TMC Operations teams on technical support for a total of different projects

### US Cabinet Depot | [uscabinetdepot.com](https://uscabinetdepot.com)

May 2023 – Aug. 2023

*IT Data 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

### Texas A&M Engineering Experiment Station | [tees.tamu.edu](https://tees.tamu.edu)

May 2022 – Dec. 2022

*Student Assistant — Python, Pytorch, Machine 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

### QinRui Construction Cost Estimating LLC.

April 2020 – May 2021

*Field Cost Estimator — AutoCAD, Gloden(BIM), Revit, Field Work*

*China*

- **Project Estimating:** Independently estimating costs and producing documents using **Gloden(BIM)**
- **Maintains and audit:** Analyzing the quantity survey using **Revit**, **AutoCAD** with teams from estimate to estimate

## Skills

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

**Frameworks & Libraries :** Numpy, Pandas, Tensorflow, Pytorch, Echarts, React, Vue, Node.js, TailwindCSS

**Databases:** MySQL, Oracle(NetSuite), Redis, PostgreSQL

**Tools:** AutoCAD, Git/GitHub, Photoshop, Tableau, MS Project, Visio, CORSIM, HCS, ArcGIS

## Leadership

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### University Women's Table Tennis Team

**Sep. 2021 - Present**

*Captain & Certificate of Chinese National Second-Level Table Tennis Athlete*

[nctta.org](http://nctta.org) | [teamusa.org/usa-table-tennis](http://teamusa.org/usa-table-tennis)

- Represented University team competing at regional and national level tournaments in US.

### AIESEC & Yuwalaya

**July 2018 - Sep. 2018**

*Global Volunteer - Nepal*

[yuwalaya.org.np](http://yuwalaya.org.np) | [aiesec.nl](http://aiesec.nl)

- Led Cholera Prevention and Response program which empowered children and youth throughout the community