

# Yun Du

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

## Education

### Texas A&M University

Aug. 2021 – 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, Software Engineering, Machine Learning, Deep Learning, Analysis of Algorithms, Cloud Computing, Traffic Engineering Operation(Signal Control), Transportation Engineering

### Zhongnan University of Economics and Law

Sep. 2016 – June 2020

Bachelor of Management Science, Construction Engineering & Accounting

Wuhan, China

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

- **Relevant Courses:** Linear algebra, Probability and statistics, Calculus, Microeconomics, Macroeconomics, Financial Accounting

## Experience

### AECOM | [aecom.com](#)

Aug. 2023 – Jan. 2024

Data Science Intern - Transportation — Python, Javascript, Vue, TailwindCss, Echarts, Node.js, Git

Sanford, FL

- **Data Processing:** 60,000 traffic data records collection, cleaning, wrangling, transformation, integration, extraction, analysis using SQL and Python
- **Dynamic Data Visualization:** Developed a dynamic transportation data visualization interactive charts using Echarts Lib(Javascript) and exhibited over **35,000** data points, allowing seamless frontend and backend data presentation.
- **Front-end Interface Development:** Independently designed and developed a dashboard for a website utilizing the Vue(Javascript), TailwindCSS, consisting of **3** main pages with approximately **20** interactive elements

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

May 2023 – Aug. 2023

IT Support Intern — SQL, NetSuite, VitePress, Git/Github, Magento, Celigo, BaseCamp

Marietta, GA

- **Financial Report Generation:** Provided technical support to the accounting department by generating and delivering **20** financial monthly reports using NetSuite
- **Guide Development, Version Control, Training:** Developed internal user guides for an application and web platform, managed version control, and conducted employee training
- **Data Error Resolution:** Utilized Celigo to resolve Oracle NetSuite-Magento errors, ensuring warehouse operations

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

May 2022 – Dec. 2022

Student Assistant — Python, Pytorch, Machine Learning, Linux(Ubuntu)

College Station, TX

- **Digital Signal Dataset Preparation:** Prepared a dataset of over **35,000** digital signal samples using Labelling
- **Transformer Model Optimization:** Configured the environment and fine-tuned hyperparameters for model training on predicting radar spectrum occupation dataset using HPRC
- **Test Accuracy Improvement:** Achieved a significant **10%** increase in test accuracy

### 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:** Analyzed the quantity survey using **Revit, AutoCAD** with teams from estimate to estimate

## Skills

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

**Frameworks & Libraries :** Numpy, Pandas, Matplotlib, Spark, Sklearn, Tensorflow, Echarts, Vue, Node.js, TailwindCSS

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

**Machine Learning:** Decision Tree, Regression, Bayesian, CNN, SVM

**Tools:** Tableau(Power BI), SaS, Jupyter notebooks, Git/GitHub, Photoshop, AutoCAD, CORSIM, HCS

## Projects

### Urban Bike-Sharing Demand Analysis

April 2024

Regression, Pandas, Numpy

[link](#)

- Implemented a random forest regression model to predict urban bike-sharing demand and analyze feature importance

### Vehicle Class Classifier

May 2024

Classification, Pandas, Numpy, Matplotlib, Sklearn

[link](#)

- Utilized random forest tree classification involves label encoding categorical features, optimizing through validation curve and learning curve

### Traffic Flow Prediction

May 2024

Regression, Pandas, Numpy, Matplotlib, Sklearn

[link](#)

- Developed an SVM-r model to predict traffic conditions using historical data with custom encoding and pre-processing techniques