

QIUSHI YAN

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[Website](#) ◇ [Github](#) ◇ [Linkedin](#)

EDUCATION

Vanderbilt University - Data Science Institute
Master of Science in Data Science

Nashville, TN
Expected May 2023

Communication University of China
Bachelor of Arts in Data Journalism

Beijing, China
September 2017 - June 2021

EXPERIENCE

LearLab - Fullstack Engineer

October 2022 - Now

- Developed a Gatsby.js theme for AI-powered digital textbooks based on React and Firebase
- Developed APIs to integrate transformer models into the frontend and maintain its deployment on Google Cloud

RStudio - Open Source Intern

May 2022 - August 2022

- Developed the R package [agua](#) for integrating the H2O.ai machine learning platform with tidymodels.
- Contributed bug fixes and features to other R packages in tidymodels: parsnip, tune, usemodels, bundle.

51Talk - Analytics Engineer Intern

September 2020 - June 2021

- Modeled key variables in teaching performance and ROI with regression and hypothesis testing.
- Developed a dashboard for monitoring key metrics identified above with Django and Vue.

DATA SCIENCE PROJECTS

[agua](#) - Tidymodels Integration with H2O

R Package Development

- Developed an R package providing tidymodels interface to the H2O sever, implemented a set of consistent APIs for model fitting, tuning, parallel processing and interpretation.

Anime Recommendation - A recommendation system for anime series

PySpark, PyTorch, Airflow, Kafka

- Developed a recommendation system for anime streaming website, including Airflow ETL tasks with PySpark, training pipelines with Node2Vec models with Neo4j, microservice GraphQL APIs with FastAPI.

[nycldging](#) - A machine learning Shiny app for exploring Airbnb listings

Shiny Dashboard Development

- Developed a website and R package (golem) which predicts price ranges for an Airbnb listing using word embeddings and multinomial regression. Provides various customizing options for crafting geospatial visualizations.

SOFTWARE PROJECTS

pylubridate - A Python library of datetime utilities

Python Package Development, Rust

- A Python library for working with datetime data with a Rust backend. Implemented parsing of ISO strings into date objects, common year, month, day extractors, and date arithmetics.

Overwatcher - An Esports API service

API development, FastAPI, DBT

- An API service for querying game statistics in the Overwatch League, with data transformation pipelines written in R's data.table and web services in Python's FastAPI and GraphQL.

For more projects see projects.qiushiyan.dev.

ADDITIONAL

Languages R, Python, SQL, TypeScript

Frameworks Shiny, Airflow, PySpark, PyTorch, REST, GraphQL, DBT, Vue, React

Certification [AWS Certified Developer](#)