

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

RStudio - Software Engineer 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.

Mobile Health Lab at Vanderbilt University - Software Engineer

Jan 2022 - April 2022

- Improved APIs for data ingestion and managed AWS infrastructure: RDS, Lambda, API Gateway and ECS.

51Talk - Analytics Engineer Intern

September 2020 - June 2021

- Modelled 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.

FULLSTACK PROJECTS

JavaScript Notebook - An interactive playground for JavaScript and TypeScript

[React](#), [Redux](#), [Express](#)

- Developed a jupyter-like environment for js & ts that executes code and renders output directly in the browser. Users can switch between markdown cells and code cells. Used a monorepo with client, server and CLI.

POTG - A serverless web app for sharing game clips

[Angular](#), [Firebase](#)

- Developed a video sharing application featuring CRUD operations, authentications, file uploads, webassembly-based video processing and edge functions. Implemented a recommendation engine with graph connections.

nyclodging - A machine learning web app for Airbnb listings

[R](#), [JavaScript](#)

- Developed an interactive website which predicts price ranges for a Airbnb listing using word embeddings and multinomial regression. Provides various customizing options for crafting user-defined geospatial visualizations.

SOFTWARE PROJECTS

pylubridate - A Python library of datetime utilities

[Python](#), [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.

Anime Recommendation - A recommendation system for anime series

[Airflow](#), [PySpark](#), [Neo4j](#)

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

For more projects see projects.qiushiyan.dev.

ADDITIONAL

Languages	TypeScript, Python, Rust, Go
Frameworks	React, Angular, Vue, Nest.js, FastAPI, MongoDB
Certification	AWS Certified Developer