

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

- Lead the development of [ITELL](#), a framework for building intelligent digital textbooks using Next.js, TypeScript, Prisma, and Tailwind. Build apps in a monorepo with separate packages in UI, database, domain features, etc.
- Connect custom large language models to the frontend and deploy via Google Cloud.

[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 modelling 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.

FULLSTACK PROJECTS

[tridata](#) - Online code editor that runs Python + R + SQL in the browser

[React](#), [WebAssembly](#)

- Developed an interactive code editor which supports Python + R + SQL natively in the browser. Computations are backed by WebAssembly. Language kernels can be extended through web workers.

[anime](#) - A recommendation system for anime series

[Angular](#), [PyTorch](#), [Kafka](#)

- 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.

[xetra](#) - An ETL pipeline and API service for trading data

[SQL](#), [pandas](#), [Pytest](#)

- Developed ETL pipelines to process the daily trading data of Deutsche Börse Group and save clean data to AWS S3. Fully tested with Pytest, deployed via AWS step functions.

SOFTWARE PROJECTS

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

[NLP](#), [FastAPI](#), [GraphQL](#)

- Developed the frontend and APIs for a language model that predicts prices for Airbnb listings. Revamped the legacy backend with GraphQL endpoints and E2E tests.

[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.

For more projects see [projects.qiushiyan.dev](#).

ADDITIONAL

Languages TypeScript, Python, Rust, Go, Elixir, SQL

Frameworks React, Angular, Vue, Nest.js, FastAPI, Cypress, GraphQL, Django

Certification [AWS Certified Developer](#)