

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](#) - 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

[JavaScript Notebook](#) - An interactive playground for JavaScript and TypeScript

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

- A jupyter-like environment for js & ts that executes code and renders output directly in the browser. Users interleave markdown and code cells and execute 3rd party libraries without local node_modules.

Anime Recommendation - A recommendation system for anime series

[PyTorch](#), [PySpark](#), [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.

[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.

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.

[qlang](#) - A toy programming language with a combination of Python and JavaScript

[Go](#)

- A interpreter written in Go with a mix of features in R, Python and JavaScript. Provided native support for vectorization, easier syntax for creating arrays and hashmaps, and first-class functions.

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](#)