QIUSHI YAN

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Website ◇ Github ◇ Linkedin

EDUCATION

Vanderbilt University   Nashville, TN
Master of Science in Data Science   09/2021 - 05/2023

Communication University of China   Beijing, China
Bachelor of Arts in Data Journalism   09/2017 - 06/2021

SKILLS

- 5+ years of experience in developing fullstack data-centric applications in TypeScript, Python and Go
- Focused on architectural best practices with automated testing and data-driven A/B experiments
- Skilled in database and DevOps on cloud such as DynamoDB and Docker, Certified AWS Developer ↗
- An open source contributor familiar with git-based collaborations, CI/CD, and Agile workflows

EXPERIENCE

LearLab - Fullstack Engineer   10/2022 - 11/2023

- Led the development of ITELL ↗, a framework for building LLM-powered digital textbooks based on Next.js. Tested with Vitest and Playwright. Managed Node.js and Python SDKs.
- Developed model serving API endpoints in Python, with containerized deployment on Google Cloud.

RStudio - Software Engineer Intern   05/2022 - 08/2022

- 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   11/2021 - 04/2022

- Rebuilt a GraphQL service from legacy server deployment to serverless solutions with API Gateway and Lambda.

PROJECTS

tridata ↗ - A wasm-powered code editor   React, Redux

- A web-based editor for creating interactive data analysis, with multi-language support in Python, SQL and R. Implemented as a monorepo with modular packages for UI and computation.

anime - A recommendation system for anime series   Angular, PyTorch, Kafka

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

webpy ↗ - An npm library for executing Python in the browser   TypeScript

- A wrapper library around pyodide for executing Python code in web workers, with a `usePython` hook for React.

Q ↗ - An interpreted language written in Go.   Go

- A programming language implemented from scratch in Go. Features vectorized operations and functional programming paradigms. Available as CLI and a web REPL.

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 arithmetic.

For more projects see projects.qiushiyan.dev.