Yifan(Eden) Wu

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Skill

- Programming language: **Python**, **C**, **Golang**, **Linux**, Java, Javascript, C++, HTML5, SQL, TypeScript, Solidity
- Machine Learning: **Torch**, **LangChain**, LangGraph, Cuda
- Databases: **PostgreSQL**, MySQL, DynamoDB, **Firebase**
- Service Cluster: Docker, **Kubernetes**
- CI/CD and Agile: **Git**, **Github Actions**, Gitlab, Jenkins, JIRA, Zenhub, TravisCI, Coveralls
- Full-stack Development: **React**, React Native, **Django**, **ExpressJS**, NodeJS, Flask, **Swift**

Work History

Apr 2023 - Present

Research Engineer

New York University, New York

- Served as a Research Engineer at NYU Visualization Imaging and Data Analysis Center (VIDA) for the AlphaD3M project and ARPA-H project.
- Contributed to user-focused data harmonization efforts by implementing **fine-tuned language models** and developing the bdi-viz interface, enabling streamlined schema matching and intuitive data exploration leveraging **Langchain LLM Agent**.
- Managed the Git repository for Alpha-AutoML, ensuring ongoing development and maintenance. Led the creation of diverse projects involving machine learning, dataset profiling, and data visualization.

Jul 2021 - Jan 2023

ICT Software Developer

Huawei, Shanghai, China

- Developed Packet Core Service Functionalities of Huawei 5G Network Engine Router. Wrote 20,000+ lines of code in **Golang** and **C**, with a test coverage of over 80%, and discovered less than 1 critical bug per 1,000 lines during Agile Test Cycles.
- Engineered Disaster Tolerance functionalities for **Kubernetes** (k8s) and **Docker** Container as a Service (CaaS) clusters. Led the development of the Hot Backup Finite-State-Machine, optimizing container transitions for swift system cluster recovery after a fatal crash.
- Developed and maintained IP Stack module, IPSec VPN module, and Hot Backup Finite-state machine module. Received the prestigious Huawei Future Star Award in recognition of outstanding contributions and achievements.

Project Experience

Apr 2024 - Present

BDIViz

- Co-designed with biomedical experts from NYU Langone.
- Led development and paper writing for BDIViz, an **LLM**-powered system for **biomedical data harmonization** and schema matching.
- Released and published BDIViz research paper at VIS 2025.

Apr 2023 - Apr 2024

Alpha-AutoML

- Developed Alpha-AutoML for VIDA Lab using Monte Carlo Tree Search for pipeline optimization.
- Built pipelines for image classification (**CLIP, ViT**), time series (**DeepAR, ARIMA**), and semi-supervised learning, integrated **PPO** and other SotA reinforcement learning algorithm.
- Managed the repository and containerized the stack for scalable deployment.

Jun 2024 - Jun 2025

CTO @ RichCRM

- Led the development of a **MERN-stack** CRM platform, managing a multi-disciplinary team to deliver all MVPs. Integrated advanced features (**Langchain**, **DocuSign**, **Google**/ **Azure APIs**).
- Secured $50k pre-seed funding and won 3rd place for pilot project with MG Law Group, NYC. 3rd place, 2nd Midwest Chinese Entrepreneurship Competition (Northwestern University).
- Received mentorship from GW Law Group, Alpha Law LLC, and NYU Tandon Future Lab.

May 2024 - Jul 2024

Co-founder @ TagMe Network

- Developed a **DePIN** project using **NFC** and blockchain for local business–Web3 integration.
- Deployed and design smart contracts using **Solidity** (ERC-20, staking) and a full-stack web dApp with wallet and token minting.

Jul 2024 - Dec 2024

CTO @ Arkive.

- Architected Arkive 2.0 Web Application (**Next.js**, **Firebase**), integrating e-commerce (**Shopify**, **Amazon**, **TradeDoubler**) using **GraphQL** and **REST** architectures and payments (**Stripe SDK**).
- Delivered MVP in 2 months, led team, and contributed to **fundraising**.

Publication

- **Wu, E.**, Turakhia, D., Wu, G., Koutras, C., Keegan, S., Liu, W., Szeitz, B., Fenyo, D., Silva, C. T., & Freire, J. (2025). ***BDIViz: An Interactive Visualization System for Biomedical Schema Matching with LLM-Powered Validation.*** IEEE VIS. [PDF]
- Liu, Y., Peña, E., Santos, A., **Wu, E.**, & Freire, J. (2024). **Magneto: Combining Small and Large Language Models for Schema Matching.** VLDB. [PDF]
- Freire, J., Fan, G., Feuer, B., Koutras, C., Liu, Y., Peña, E., Santos, A., Silva, C. T., & **Wu, E.** (2025). ***Large Language Models for Data Discovery and Integration: Challenges and Opportunities.*** *IEEE Data Engineering Bulletin*, 49(1), 3–31. [PDF]

Education

2021-09 - 2024-05

Master: Computer Science — New York, NY
New York University Tandon School of Engineering — *GPA: 3.9*

2017-09 - 2021-05

Bachelor: Computer Science — Shanghai, China/New York, NY
New York University Shanghai — *GPA: 3.8*