

Nai-Jui Yeh (Nary Yeh)

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Open Source Experience

Flyte Committer

Nov. 2024 - Present

K8S Workflow Orchestration Platform For Data & ML Pipelines | Go, Python, Docker, Kubernetes

- **Explicit pod template setting support for Spark (Flyte#6085, Flytekit#3016)**
 - Enhanced Spark job flexibility and cost efficiency by enabling per-task configurability for driver and executor pods, supporting custom Kubernetes configurations
 - Streamlined Spark task configuration in Flyte by integrating pod template logic, improving usability for data workflows
- **Integrate Rust-based storage back-end (Flytekit#3033)**
 - Reduced the size of Flytekit by **50-100MBs** through dependency optimization, enhancing deployment efficiency
 - Eliminated approximately 10 unnecessary dependencies, significantly lowering security vulnerabilities and improving system reliability
 - Achieved a **2-3x** performance boost, significantly enhancing system efficiency and user experience

Obstore Contributor

Jan. 2025 - Present

Highest-throughput Python interface to S3, GCS & Azure Storage | Python, fsspec

- **Finalize fsspec integration with obstore**
 - Enabled on-demand obstore instance creation in fsspec, automating store initialization across buckets and aligning with fsspec conventions ([#198](#))
 - Integrated multi-part uploads in obstore with fsspec, enabling efficient buffer read/write operations ([#165](#))

Work Experience

Data Scientist

Nov. 2024 - Present

AHEAD Medicine

Taipei, Taiwan

- Improved pipeline efficiency by **30%** using parallel execution, modular workflows, and optimized resource allocation with **Metaflow**

AI Back-End Engineer

July 2023 - Dec. 2023

Genenet Technology (UK)

Cambridge, UK

- Developed and deployed scalable **data pipelines** and **RESTful APIs** using **Python** for a bioinformatics analysis application
- Optimized system efficiency by **20%** by building an asynchronous task queue architecture with **RabbitMQ** and **Redis**
- Deployed the full-stack application on **GCP**

Deep Learning Intern

July 2022 - Aug. 2022

MediaTek Research

Taipei, Taiwan

- Developed and deployed an **NLP** application in **Python** with **PyTorch** and **FastAPI**, adopted by multiple MediaTek business units
- Developed **MongoDB** schemas and implemented **RESTful API** for efficient data access
- Simplify backend system and machine learning model deployments using **Docker** containers

Education

University of Nottingham

Sept. 2023 - Sept. 2024

MSc Data Science: distinction (Score: 85/100)

Nottingham, UK

- **Coursework:** Machine Learning, Big Data Learning and Technologies, Statistical Inference, Time Series and Forecasting

National Taipei University of Technology

Sept. 2018 - June 2023

Intelligent Automation Engineering: GPA: 3.99/4.0

Taipei, Taiwan

- **Coursework:** Data Structure, Algorithm, Computer Network, Database System, Machine Learning