

Yanze (David) Wu

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Education

New York University (NYU)

B.S. in Computer Science, Expected May 2027

Relevant Coursework: Artificial Intelligence, Machine Learning, Natural Language Processing, Algorithms, Operating Systems, Computer Systems Organization, Software Engineering, Processing Big Data for Analytics Applications

New York, NY

Sep 2023 - May 2027

Experience

CloudTune

Founder & Developer

- Built and deployed a multi-tenant AI platform spanning dataset intake, training orchestration, model registry, evaluation, and inference endpoints across AWS, GCP, and Azure.
- Built the control plane and cloud infrastructure with FastAPI, Docker, Terraform, CI/CD, and Prometheus/Grafana.
- Added cost accounting, GPU-aware scheduling, and release-control workflows to manage model training and deployment.
- Validated end-to-end product flows including signup, project creation, run registration, release requests, evidence export, and endpoint inference.

New York, NY

Jan 2025 - Present

ArchAI

AI Research Intern

- Built and optimized ComfyUI workflows for multimodal generation and text-to-video experimentation.
- Developed internal pipelines combining diffusion, retrieval, and LLM-assisted generation for research and demo use cases.
- Benchmarked latency, cost, and usability trade-offs across open-weight model families for internal testing and demos.

Beijing, China

May 2025 - Aug 2025

Nanjing HuiJin Tech Company

AI-Driven Backend Systems Intern

- Launched AI-assisted backend monitoring services in Java and Spring Boot, reducing system downtime by 15%.
- Increased platform throughput by 40% through multithreading and Redis caching.
- Reduced API latency by 25% through MySQL query optimization while maintaining 99.9% service availability.

Nanjing, China

Jan 2023 - Dec 2023

NYU Wireless, Prof. Theodore S. Rappaport

Teaching Assistant, Introduction to ECE (ECE-1002)

- Supported 160+ students through lab sessions and office hours; designed and graded ABET-aligned assignments and contributed course material for ECE-1002.

New York, NY

Feb 2025 - May 2025

Research

Material-Aware 3D Scene Reconstruction for Computer Vision and Wireless Simulation

Supervisors: Prof. David Fouhey and Prof. Theodore S. Rappaport

- Built an end-to-end 3D reconstruction pipeline for about 2,500 sq m indoor scenes, achieving under 10 cm geometric error and 89% material classification precision.
- Improved NYURay simulation accuracy by 18% through ML-enhanced scene and material modeling.
- Extended reconstruction workflows to 2 sq km outdoor environments using plane and object detection with large-scale point-cloud processing.

New York, NY

Sep 2023 - Present

Selected Publications

- Co-author, *IEEE ICC 2025*: "Urban Outdoor Propagation Measurements and Channel Models at 6.75 GHz FR1 (C) and 16.95 GHz FR3 Upper Mid-Band Spectrum for 5G and 6G."
- Co-author, *IEEE ICC 2025*: "Upper Mid-Band Channel Measurements and Characterization at 6.75 GHz FR1 (C) and 16.95 GHz FR3 in an Indoor Factory Scenario."

Leadership & Awards

- Hosted and organized 6 hackathons with 200+ total participants focused on AI, engineering, and student innovation.
- 1st Place, Pulse NYC Hackathon (2025), for building an AI product prototype with an LLM-backed workflow and a demo-ready web interface.

Skills

Languages: Python, Java, TypeScript, SQL, C++

ML/AI: PyTorch, CUDA, LoRA/QLoRA, inference benchmarking, multimodal workflow design

Backend: FastAPI, Spring Boot, Redis, MySQL

Infra/Cloud: Docker, Kubernetes, Terraform, CI/CD, AWS, GCP, Azure, Prometheus, Grafana

Certifications

AWS Solutions Architect - Professional | AWS Security - Specialty | AWS Solutions Architect - Associate | Google Professional Data Engineer