

Yuwenqian Chen

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Open to relocation | Permanent Resident

Education

Stony Brook University

M.S. in Computer Science | GPA-3.63

January 2024 - December 2025

Stony Brook, NY

Stony Brook University

B.S. in Computer Science and Applied Mathematics & Statistics | GPA-3.53 | Dean's List

August 2020 - December 2023

Stony Brook, NY

Experience

AI/Data Systems Intern

DeepChatBI

June 2025 -- Present

Remote

- Built and optimized distributed data pipelines in Python and Java for analytics workloads, increasing throughput by 3x and reducing latency by 50%.
- Developed control-plane-style services for real-time chart generation, improving response reliability to 99.9% via fault-tolerant message handling.
- Implemented observability layers and automated validation tests for LLM-driven SQL engines, cutting production debugging time by 40%.
- Collaborated with infrastructure engineers to deploy services on containerized environments (Docker + Kubernetes) under a 'run-what-you-build' model.

Software Engineering Intern

GroupClock Inc.

February 2024 -- June 2024

NY

- Engineered secure networked data transfer modules using Swift and REST APIs, improving request throughput and reliability under fluctuating network conditions.
- Reduced system latency by 30% through asynchronous streaming and optimized serialization logic for real-time biometric data.
- Designed monitoring scripts and automated alerting pipelines, increasing uptime visibility and ensuring consistency between iOS and backend data streams.

Teaching Assistant

Undergraduate & Graduate CS Courses

Fall 2022, Fall 2024

Stony Brook, NY

- Supported 100+ students in Systems and Networking courses through mentorship, resulting in a 12% improvement in average exam performance.

Projects

GNNs for Molecular Dynamics Simulations

May 2025 - Present

- Developed distributed training pipelines for Graph Neural Networks (DimeNet, MACE) using PyTorch and Python multiprocessing, accelerating experiment throughput by 200%.
- Reduced model prediction loss by 80% (0.6 → 0.12) through feature normalization and parallelized data ingestion, improving simulation accuracy.

The Interpretation of Vanity License Plates

September 2024

- Built a distributed data preprocessing system for 150K+ multilingual text samples; fine-tuned a LLaMA3-7B model using LoRA for semantic classification.
- Improved classification accuracy by 30% over lexicon-based baselines while reducing manual moderation workload via automated pipeline execution.

Health Monitoring System

September 2023

- Streamed health telemetry from iOS devices using HealthKit APIs, achieving a 60% reduction in manual data entry and enhancing reliability through real-time sync monitoring.
- Delivered an end-to-end analytics pipeline (Swift + Node.js + SQL) for 30+ patients, visualizing mobility metrics and improving clinician decision latency.

Technical Skills

Programming: Go, Python, Rust, Java, C++, Swift, SQL

Frameworks: Docker, Kubernetes, ClickHouse, Grafana, PostgreSQL, PyTorch, TensorFlow, Spring Boot, React

Networking: TCP/IP, HTTP/HTTPS, TLS, CDN Concepts