

Yuwenqian Chen

yuwenqianchen@gmail.com | 347-495-4890 | linkedin.com/in/yuwenqian-chen | github.com/lenzlaww
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 Engineering Intern DeepChatBI	June 2025 -- Present Remote
<ul style="list-style-type: none">Engineered near real-time and batch data pipelines connecting multi-source analytics logs, enabling automated metric extraction and improving LLM-driven BI accuracy by 90%.Reduced latency by 50% through a streaming API architecture using message-based workflows (Kafka-style event streams) and dynamic tool orchestration.Designed metric ingestion and aggregation logic (SQL + Python) supporting observability and data validation across 10+ analytical dashboards, improving reliability and reducing manual QA time by 70%.Collaborated on productionizing data services in a cloud environment (AWS/GCP equivalent), implementing CI/CD and automated error monitoring for 'you build it, you run it' ownership.	
Software Engineering Intern GroupClock Inc.	February 2024 -- June 2024 NY
<ul style="list-style-type: none">Built secure data capture and transmission pipelines for facial biometrics using SwiftUI + REST APIs, enabling real-time ML input and reducing manual verification by 40%.Optimized data streaming and upload logic, improving app responsiveness by 30% and increasing user retention during beta testing (20+ active users).Implemented end-to-end monitoring with logging and exception handling to enhance reliability and observability of iOS-backend data sync processes.	
Teaching Assistant Undergraduate & Graduate CS Courses	Fall 2022, Fall 2024 Stony Brook, NY
<ul style="list-style-type: none">Facilitated data structure and algorithm learning for 100+ students, improving average exam scores by 12% through structured mentoring and performance feedback.	

Projects

GNNs for Molecular Dynamics Simulations	May 2025 - Present
<ul style="list-style-type: none">Built distributed data preprocessing pipelines for molecular datasets and trained Graph Neural Networks (e.g., DimeNet, MACE) to simulate solvent dynamics.Reduced prediction loss by 80% (0.6 → 0.12) through data normalization and model tuning, improving scalability for large-scale simulation workloads.	
The Interpretation of Vanity License Plates	September 2024
<ul style="list-style-type: none">Developed a data processing and training pipeline for 150K+ multilingual text records, fine-tuning a LLaMA3-7B model using LoRA to classify plate approvals.Improved classification accuracy to 71%, outperforming lexicon-based baselines by 30% while reducing manual screening workload via automated inference.	
Health Monitoring System	September 2023
<ul style="list-style-type: none">Integrated HealthKit APIs to collect and transmit structured mobility data streams from 30+ post-operative patients, reducing manual data entry by 60%.Designed an end-to-end pipeline from mobile sensors to analytics dashboards using Swift, Node.js, and RESTful APIs for real-time clinical insights.	

Technical Skills

Programming: Python, Java, C++, Swift, SQL, JavaScript, TypeScript
Frameworks: Apache Spark, Apache Airflow, Kafka, Docker, Kubernetes, LLM (OpenAI, Claude, LLaMA), PyTorch, TensorFlow, Spring Boot, React
Database: BigQuery, MySQL, MongoDB, Snowflake