Yuwenqian Chen

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Open to relocation | Permanent Resident

Education

Stony Brook University   **January 2024 - December 2025**
M.S. in Computer Science | GPA-3.63   *Stony Brook, NY*

Stony Brook University   **August 2020 - December 2023**
B.S. in Computer Science and Applied Mathematics & Statistics | GPA-3.53 | Dean's List   *Stony Brook, NY*

Experience

Full-Stack / AI Engineering Intern   **June 2025 -- Present**
DeepChatBI   *Remote*

- Accelerated insight generation for analytics users by building VisualizeAgent, enabling SQL outputs to be visualized in 10+ interactive chart types (line, bar, pie, scatter, etc.).
- Improved referral-like ingestion throughput by 60% via asynchronous task scheduling and schema validation across multiple data sources.
- Reduced query latency 50% using a streaming architecture built with Anthropic Messages API for real-time multi-step reasoning and tool orchestration.
- Enhanced data reliability and compliance by implementing schema validation and error-handling middleware across backend services, supporting scalable integrations with external systems.

Software Engineering Intern   **February 2024 -- June 2024**
GroupClock Inc.   *NY*

- Developed full-stack infrastructure for biometric scheduling and tracking using SwiftUI, Node.js, and MongoDB, ensuring secure data flow between clients and backend services.
- Implemented REST APIs for data ingestion and synchronization with partner systems, reducing manual intervention by 40%.
- Led 4 iterations of UX optimization that improved booking-flow responsiveness and load time by 30%, deployed to 20+ beta users via TestFlight.
- Collaborated with cross-functional teams to deliver compliant data handling aligned with healthcare privacy standards.

Teaching Assistant   **Fall 2022, Fall 2024**
Undergraduate & Graduate CS Courses   *Stony Brook, NY*

- Mentored 100+ students through coding labs and review sessions, improving course exam averages by 12% and supporting scalable academic workflows.

Projects

CICAidA Healthcare Monitoring Platform   **January 2023**

- Built a full-stack patient monitoring system integrating Firebase (backend), Swift (mobile), and REST APIs for real-time health data sharing between patients and clinicians.
- Reduced manual tracking time by 60% and improved data reliability with automated ingestion and alert systems.
- Presented system outcomes demonstrating scalable patient-provider connectivity for remote care and follow-up.

Health Monitoring System   **September 2023**

- Developed an iOS app (HealthKit + Swift) to collect postoperative mobility data and securely sync to clinician dashboards, streamlining care management for 30+ patients.
- Implemented API integration with a Node.js backend for data aggregation and visualization, achieving 60% faster decision-making by clinicians.
- Aligned architecture with HIPAA-style data-sharing principles and healthcare interoperability standards.

Handwritten Symbol Recognition (MathKey)   **September 2024**

- Trained a CNN model on 200K+ handwriting samples for accurate symbol classification and data ingestion.
- Achieved 95.9% Top-3 accuracy, demonstrating scalable ML model deployment for accessible input and learning tools.

Technical Skills

Programming: Python, JavaScript, TypeScript, Swift, Java, C++, HTML/CSS, R, MATLAB
Frameworks: Flask, React, Node.js, PyTorch, TensorFlow, OpenAI/Claude API, Pandas, Numpy
Database: MySQL, MongoDB, Firebase