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*

- Expanded full-stack data infrastructure using Python (Flask) and React/TypeScript, powering analytics and insight generation for enterprise partners.
- Designed and maintained RESTful APIs that integrated with multi-source data pipelines, improving system scalability and reliability for high-traffic analytics requests.
- Reduced latency by 50% and increased data accuracy by 90% by implementing real-time streaming and validation layers for partner integrations.
- Collaborated cross-functionally to deliver user-facing dashboards that bridged data scientists and business teams, accelerating decision cycles from days to minutes.

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

- Developed end-to-end user workflows using Swift (frontend) and Node.js/Express (backend), enabling secure scheduling and biometric data transmission.
- Built API endpoints for data intake, improving reliability and throughput of real-time partner communications by 40%.
- Collaborated with cross-disciplinary teams to refine UI flows and reduce onboarding friction, improving conversion during beta by 25%.

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

- Guided 100+ students through data structures, algorithms, and software engineering concepts, improving average course performance by 12%.

Projects

Health Monitoring System **September 2023**

- Developed an iOS + Flask system to stream patient mobility metrics (HealthKit API) to clinicians, reducing manual data entry by 60%.
- Integrated RESTful backend with Excel-based dashboards to support remote patient monitoring, aligning with healthcare data compliance standards.

The Interpretation of Vanity License Plates **September 2024**

- Built a large-scale text classification pipeline (Python, Flask API) processing 150K+ records, fine-tuning LLaMA3-7B for semantic moderation tasks.
- Achieved 71% predictive accuracy, demonstrating potential to automate screening workflows and reduce manual review load by 30%.

Technical Skills

Programming: Python, TypeScript, JavaScript, Swift, Java, SQL
Frameworks: Flask, React, Node.js, Express, Docker, Kubernetes
Concepts: RESTful API Design, Full-Stack Development, Data Integration, Scalable Infrastructure, Healthcare Data Systems