

MAN CAO

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EDUCATION

Rutgers University - New Brunswick

Bachelor of Science in Computer Science

Sep 2022 – Jan 2026

GPA: 3.6/4.0

WORK EXPERIENCE

AI Engineer Intern

Xenara Inc.

Sep 2025 – Present

Remote

- Redesigned the RAG pipeline for “Xena” customer-executive chatbot plus vector-trained self-learning using LangChain to raise self-serve resolution by **24%**.
- Accomplished Azure OpenAI features for customer executive assistant through NLP, reducing median API latency by **28%** with batching, caching, and async I/O.
- Engineered intent recognition classification API from user messages and route them to appropriate microservices via Transformer models reducing fallback rate by **19%**.
- Conducted weekly code reviews and pair programming with **+14** engineers for core model services.

Research Assistant

Rutgers University

May 2023 – May 2024

New Brunswick, NJ

- Reduced vortex calculation instability simulation of flapping robots by **18%** with improved numerical schemes and adaptive time-stepping via NumPy and Matplotlib.
- Optimized simulation code with vectorization and parallelization improving runtime by **11%**.

PROJECT EXPERIENCE

Paper Stock Trading AI Assistant Educational Platform

Collaborative Software Engineer

Jul 2025 – Sep 2025

- Engineered a low latency paper trading service with React, Node.js, and Next.js over WebSockets, cutting median order latency to **250ms** with resilient retries.
- Delivered an LLM coach with guardrails and deterministic prompts that clarified order types, reducing paper trade mistakes by **21%**.

AI Sentiment Assistant Goal Journaling Web Application

Lead Software Developer

May 2025 – Jul 2025

- Architected a journaling web app on Firebase with secure auth and role based access, implementing integration tests and CI to harden releases by **15%**.
- Implemented embeddings with vector search for personalized suggestions, improving retrieval precision by **17%** under realistic traffic.

LEADERSHIP EXPERIENCE

Volleyball Coach Assistant

Cherry Hill Public Schools

Mar 2024 – Jun 2024

Cherry Hill, NJ

- Guided scouting, practice design, and in-game adjustments that contributed to the **Olympic Conference Patriot Division championship**, top state rankings.
- Mentored over **32** student-athletes providing individualized development plans and constructive critique.

TECHNICAL SKILLS

Languages/Frameworks: Python, C/C++ , Java, FastAPI, SQL, PyTorch, Hugging Face, scikit-learn, Spring Boot, Django, Vue.js, Angular, NLTK, Pinecone

Cloud/Tools: AWS, Kubernetes, GraphQL, REST APIs, Linux, Git, PostgreSQL, Redis, Jenkins, Mem0