

# MAN CAO

856-938-4141 | manvocao0271@gmail.com  
linkedin.com/in/man-cao-0243a125a | github.com/manvocao0271

## EDUCATION

---

<b>Rutgers University - New Brunswick</b> <i>Bachelor of Science in Computer Science</i>	Sep 2022 – Jan 2026 GPA: 3.6/4.0
---	-------------------------------------

## WORK EXPERIENCE

<b>AI Engineer Intern</b> <i>Xenara Inc.</i>	Sep 2025 – Present Remote
<ul style="list-style-type: none"><li>Redesigned the RAG pipeline for “Xena” customer-executive chatbot plus vector-trained self-learning using LangChain to raise self-serve resolution by <b>24%</b>.</li><li>Accomplished Azure OpenAI features for customer executive assistant through NLP, reducing median API latency by <b>28%</b> with batching, caching, and async I/O.</li><li>Engineered intent recognition classification API from user messages and route them to appropriate microservices via Transformer models reducing fallback rate by <b>19%</b>.</li><li>Conducted weekly code reviews and pair programming with <b>+14</b> engineers for core model services.</li></ul>	

<b>Research Assistant</b> <i>Rutgers University</i>	May 2023 – May 2024 New Brunswick, NJ
<ul style="list-style-type: none"><li>Reduced vortex calculation instability simulation of flapping robots by <b>18%</b> with improved numerical schemes and adaptive time-stepping via NumPy and Matplotlib.</li><li>Optimized simulation code with vectorization and parallelization improving runtime by <b>11%</b>.</li></ul>	

## PROJECT EXPERIENCE

<b>Paper Stock Trading AI Assistant Educational Platform</b> <i>Collaborative Software Engineer</i>	Jul 2025 – Sep 2025
<ul style="list-style-type: none"><li>Engineered a low latency paper trading service with React, Node.js, and Next.js over WebSockets, cutting median order latency to <b>250ms</b> with resilient retries.</li><li>Delivered an LLM coach with guardrails and deterministic prompts that clarified order types, reducing paper trade mistakes by <b>21%</b>.</li></ul>	

  

<b>AI Sentiment Assistant Goal Journaling Web Application</b> <i>Lead Software Developer</i>	May 2025 – Jul 2025
<ul style="list-style-type: none"><li>Architected a journaling web app on Firebase with secure auth and role based access, implementing integration tests and CI to harden releases by <b>15%</b>.</li><li>Implemented embeddings with vector search for personalized suggestions, improving retrieval precision by <b>17%</b> under realistic traffic.</li></ul>	

## LEADERSHIP EXPERIENCE

<b>Volleyball Coach Assistant</b> <i>Cherry Hill Public Schools</i>	Mar 2024 – Jun 2024 Cherry Hill, NJ
<ul style="list-style-type: none"><li>Guided scouting, practice design, and in-game adjustments that contributed to the <b>Olympic Conference Patriot Division championship</b>, top state rankings.</li><li>Mentored over <b>32</b> student-athletes providing individualized development plans and constructive critique.</li></ul>	

## TECHNICAL SKILLS

---

<b>Languages/Frameworks:</b> Python, C/C++, Java, FastAPI, SQL, PyTorch, Hugging Face, scikit-learn, Spring Boot, Django, Vue.js, Angular, NLTK, Pinecone
<b>Cloud/Tools:</b> AWS, Kubernetes, GraphQL, REST APIs, Linux, Git, PostgreSQL, Redis, Jenkins, Memcached