

Jacky(Wenhao) He

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EDUCATION

- **University at Buffalo, The State University of New York** Aug 2022 - May 2024
Master of Science in Engineering Science focus on Artificial Intelligence GPA 3.37/4.0
Courseworks: Machine Learning, Deep Learning, Reinforcement Learning, Computer Vision, Pattern Recognition
- **University at Buffalo, The State University of New York** Aug 2018 - May 2022
Bachelor of Science in Computer Science
Courseworks: Data Structures and Algorithms, Networking, Systems Programming, Computational Linguistics

WORK EXPERIENCES

- Clipp** New York, NY
Software Engineer Intern Nov 2024 - Jun 2025
 - Developed a web app/Flutter mobile app, streamline supplier workflows, cutting order steps and boosting efficiency by 30%.
 - Designed an AI chatbot for automated ordering (40% faster) and a prototype that cut restaurant manual work by 60%.
 - Built a real-time chat system (GetStream, Firebase, Flutter) enabling seamless communication for 500+ users.
 - Achieved 90%+ branch coverage on a complete page with unit and regression tests, improving early bug detection.
 - Collaborated on UX redesigns to enhance onboarding and user experience for early supplier and buyer users.

- CAN International Corp** New York, NY
Software Engineer Intern Apr 2024 - Oct 2024
 - Built a scalable membership app with job search & event management, engaging 300+ users.
 - Optimized avatar loading from 2 minutes to seconds, improving UI speed & user experience.
 - Designed AI-powered document processing with NLP & Azure Logic Apps, reducing manual input by 70%.
 - Secured real-time data storage with Google Firebase, enhancing accessibility & performance.

PROJECTS

- Movie Recommendation System** Aug 2024 - Present
Personalized movie recommendations using Transformer models
 - Built an AI-powered movie recommendation system using Transformer models & TMDb metadata for personalized content.
 - Engineered a scalable ML pipeline with AWS S3 & SageMaker for real-time inference & deployment.
 - Integrated AI into a full stack app with real-time inference & CI/CD automation.
- Audio Cloning: Project Leader** Aug 2023 - Feb 2024
Developed SV2TTS model to replicate judge's voice
 - Developed an SV2TTS model for voice cloning, enabling personalized speech applications.
 - Achieved 90% voice accuracy using UMAP & deep learning, improving synthesis quality.
 - Optimized model efficiency by reducing system latency & improving AI accuracy.

TECHNICAL SKILLS

Programming: Python, TypeScript, JavaScript, Java, C, C++
AI & Machine Learning: LLM, NLP, Transformer, TensorFlow, PyTorch, Scikit-learn, OpenCV, spaCy
Cloud & DevOps: AWS, GCP, Firebase, Microsoft Azure, Docker
Frontend & UI: React, React Native, Next.js, Flutter
Backend & Databases: GraphQL, Node.js, Jest, MongoDB, Django, Flask, SQL, MySQL
Developer Tools: Git, Datadog, Figma, VS Code, IntelliJ IDEA, PyCharm