Wenhao He

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TECHNICAL SKILLS

Programming: Python, TypeScript, JavaScript, Java, C, C++

AI & Machine Learning: TensorFlow, PyTorch, OpenCV, Scikit-learn, NLP (**spaCy, Transformers**)

Cloud & DevOps: AWS (SageMaker, S3), GCP, Firebase, Microsoft Azure, Docker

Frontend & UI: React, React Native, Flutter, Next.js

Backend & Databases: Node.js, GraphQL, Jest, Django, Flask, SQL, MongoDB, MySQL

Developer Tools: Git, Datadog, Figma, VS Code, IntelliJ IDEA, PyCharm

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, Computer Networking, Systems Programming, Computational Linguistics

WORK EXPERIENCES

Clipp　　　　　　　　　　　　　　　　　　　　　　　　　　　　　New York, NY
Software Engineer Intern　　　　　　　　　　　　　　　　　　　　　　*Nov 2024 - Jun 2025*

- Developed a Flutter-based mobile/web app, streamlining supplier workflows and cutting order steps for 30% efficiency gain.
- Built a real-time chat system (GetStream, Firebase, Flutter) enabling seamless communication for 500+ users.
- Designed an AI chatbot for automated ordering (40% faster) and a prototype that cut restaurant manual work by 60%.
- 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.