

# 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, GraphQL, Flutter, Next.js

**Backend & Databases:** Node.js, 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

Oct 2024 - Present

- Developed Flutter-based mobile & web UI, optimizing supplier workflows and reducing order time by 25%.
- Collaborated on UX redesign with designers to improve onboarding and user experience.
- Built a real-time chat system using GetStream, Firebase, and Flutter, enabling seamless 300+ supplier-buyer interactions.
- Reduced downtime by 30% through bug fixes and designed an AI chatbot, improving automated order placement efficiency by 40%.

### CAN International Corp

New York, NY

Software Engineer Intern

Apr 2024 - Sep 2024

- Built a scalable membership app with job search & event management, engaging 500+ 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: Machine Learning Engineer

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 & Software Engineer

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.