

Wenhao He

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TECHNICAL SKILLS

Programming Languages: Python, TypeScript, JavaScript, HTML/CSS, Java, C, C++, MATLAB
Cloud Platforms: AWS (SageMaker, S3), Google Cloud Platform (GCP), Microsoft Azure
Databases: MongoDB, Google Firebase, SQL, MySQL
Developer Tools: Datadog, Figma, TestFlight, Docker, Git, Tableau, VS Code, PyCharm, IntelliJ IDEA
Frameworks/Libraries: React, React Native, GraphQL, Flutter, Node.js, Next.js, Django, Flask, PyTorch, TensorFlow, Scikit-learn, Matplotlib, Pandas, PySpark, Apache Hadoop, OpenCV

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
Coursework: 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
Coursework: Data Structures and Algorithms, Computer Networking, Systems Programming, Computational Linguistics

WORK EXPERIENCES

- Clipp** New York, NY
Software Engineer Intern Oct 2024 - Present
- Contributed to both the Flutter mobile and web versions of the Clipp App, streamlining workflows for over 300 suppliers and restaurants, which accelerated order placements by 25% and significantly improved operational efficiency.
 - Participated in brainstorming sessions for UX changes—without leading—to support the buyer onboarding UI/UX revamp.
 - Built a one-on-one chat feature using GetStream, enabling real-time communication for over 300 suppliers and restaurants.
 - Diagnosed and resolved critical bugs across platforms, reducing downtime by 30% while also designing and prototyping an AI chatbot that automated order placements, reducing manual intervention by 40%.

- CAN International Corp** New York, NY
Software Engineer Intern Apr 2024 - Sep 2024
- Built a membership app featuring job search, event management, and mentor–mentee matching, enhancing engagement for 500+ users.
 - Reduced avatar loading times by approximately 95%, from 2 minutes to mere seconds, by refining image processing workflows and significantly increasing scalability.
 - Integrated AI to analyze job description PDFs and automate form-filling, reducing manual input by 70%.
 - Implemented secure data storage and real-time data fetching with Google Firebase, improving accessibility and security.

PROJECTS

- Movie Recommendation System: Machine Learning Engineer** Aug 2024 - Present
Personalized movie recommendations using Transformer models
- Built a scalable web app for personalized movie recommendations using a custom Transformer model, leveraging real-time TMDb metadata.
 - Designed an efficient data pipeline with AWS S3 and SageMaker, ensuring scalability and high availability.
 - Implemented CI/CD practices for continuous integration, improving deployment efficiency, and maintaining high code quality.

- Audio Cloning: Project Leader & Software Engineer** Aug 2023 - Feb 2024
Developed SV2TTS model to replicate judge's voice
- Led the development of a three-stage pipeline SV2TTS model to replicate voices unseen during training.
 - Achieved 90% voice replication accuracy using UMAP for feature reduction and deep learning techniques.
 - Collaborated with cross-functional teams to improve model accuracy and reduce system latency.