Wenhao He

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TECHNICAL SKILLS

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

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*

- Collaborated with the team to develop the mobile version of the Clipp App, streamlining supplier-restaurant workflows to enable efficient order placement
- Developed a one-on-one chat feature using GetStream, enabling real-time communication for 300+ suppliers and restaurants
- Debugged critical system bugs, boosting system reliability and reducing downtime by 30%
- Revamped the web and mobile applications, resolving key validation and UI issues to significantly enhance the user experience during onboarding and streamline daily operations
- Prototyping chatbot for the mobile app to automate and streamline order placement processes for restaurants

CAN International Corp   New York, NY
Software Engineer Intern   *Apr 2024 - Sep 2024*

- Developed a high-performance CAN membership app supporting job search, event management, and mentor-mentee matching, enhancing the experience for over 500 users
- Optimized avatar loading for users, reducing processing time from minutes to seconds, ensuring scalability
- Introduced AI to analyze job description PDFs, automating form-filling and reducing manual input by 70%
- Implemented secure data storage and real-time data fetching using Google Firebase, improving data 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