

Wenhao He

wenhaohe8@gmail.com | 347-824-4797 | LinkedIn | GitHub | Website

Software Engineer with 2+ years of experience building production full-stack and AI-powered systems using Python, TypeScript, React, and cloud platforms.

WORK EXPERIENCE

Software Engineer (AI/Full-Stack)

New York, New York

Clipp

Nov 2024 – Jun 2025

- Collaborated in Agile/Scrum teams using Jira and Git to integrate AI-powered chatbot workflows (Botpress) into production, enhancing user engagement and content relevance.
- Developed scalable full-stack applications (React, TypeScript, GraphQL, REST APIs, Flutter), improving workflows and boosting efficiency by **30%**.
- Built and deployed a real-time chat platform (GetStream, Firebase, TypeScript) using an event-triggered design for instant client updates, supporting 500+ concurrent users.
- Automated testing and quality checks, achieving **90%+ branch coverage** for critical workflows, ensuring stability and maintainability in production releases.

Software Engineer

New York, New York

CAN International

Apr 2024 – Oct 2024

- Initiated and led development of a membership app with job search and event features, engaging 300+ users.
- Customized Azure Document Intelligence pipelines to extract structured job data (title, salary, qualifications), boosting downstream **automation efficiency by 40%**.
- Built Azure Functions triggers for real-time NLP updates, improving responsiveness.
- Integrated Firebase for low-latency storage and rapid access, supporting real-time analytics and app performance.
- Reduced avatar load time from **minutes to seconds**, greatly improving UI responsiveness and user experience.

PROJECTS

Personal Blog Platform (Node.js, Express, MongoDB, React)

Full-stack web app for publishing and managing blogs

Jun 2025 – Present

- Built and deployed a full-stack blogging platform, supporting a public blog and role-based admin CMS.
- Implemented JWT authentication, API rate limiting, and secure Cloudinary-based media uploads.
- Operated and scaled on Vercel with CI/CD, markdown-to-HTML rendering, SEO-friendly routing, and backend optimizations supporting hundreds of daily visitors.

AI Voice Cloning (SV2TTS, Deep Learning)

Developed SV2TTS model to replicate judge's voice

Aug 2023 – Feb 2024

- Developed an SV2TTS model for voice cloning, enabling personalized speech applications.
- Significantly improved voice synthesis quality using UMAP-based embeddings.
- Optimized model efficiency by reducing inference latency and improving synthesis accuracy.

TECHNICAL SKILLS

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

AI & Machine Learning: LLM, NLP, Transformer, TensorFlow, PyTorch, Scikit-learn, OpenCV, spaCy

Deployment & Optimization: CI/CD (GitHub Actions, Vercel), API optimization

Cloud & DevOps: AWS (Certified Developer – Associate, DVA-Co2), GCP, Firebase, Microsoft Azure, Docker

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

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

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

EDUCATION

University at Buffalo, SUNY

Aug 2022 – May 2024

Master of Science in Engineering Science (Artificial Intelligence)

University at Buffalo, SUNY

Aug 2018 – May 2022

Bachelor of Science in Computer Science