**Hui zhang**

**551-998-4408|| [hui0041600@gmail.com](mailto:hui0041600@gmail.com)**

**<https://github.com/hui0041600> | <https://www.hu1zhang.com/>**

Full-stack developer with expertise in React, Next.js, and AI-driven applications. Strong foundation in JavaScript, Python, and database management. Skilled in real-time data processing, cloud deployment, and AI/ML integration. Quick learner, problem-solver, and effective team player in fast-paced environments.

**EDUCATION**

**Master of Science in Computer Science Candidate Pace University | *GPA: 3.97* | 2023–Present**

***Courses:*** Database Management System, Computer Science and Concepts, Introduction to Deep Learning, AI,

Computer Network Security, Algorithms & Computing Theory, Mobile Application

**Bachelor of Art in French Henan University | GPA:3.05 | 2018–2022**

**ACADEMIC PROJECTS**

**AI-Powered Interview Question Generation**

* Developed an AI-powered interview question generator that extracts resume details, job descriptions, and online profile data (GitHub, LinkedIn, website) to create context-aware interview questions.
* implemented a Flask-based API with Ollama (Mistral LLM) to dynamically generate tailored interview questions.
* Built an automated resume parsing module, extracting text and links from PDFs & DOCX using PyMuPDF & docx2txt.
* Integrated GitHub API & web scraping techniques to retrieve candidate project details for more accurate AI-driven question generation.
* Optimized AI prompt engineering, ensuring that the system generates at least 10+ categorized questions, leveraging structured reasoning and retrieval augmentation.

**My-portfolio**

* Built a modern portfolio website with Next.js, TypeScript, and Tailwind CSS, showcasing projects and skills.
* Implemented dynamic UI components, SSR, and SSG for enhanced performance and SEO.
* Integrated a Node.js backend (Express.js) to support future API requests and dynamic updates.

**Deep Learning-Based Image Classifier**

* Developed a ResNet50-based image classifier, achieving 90.09% accuracy using TensorFlow & PyTorch.
* Built an image preprocessing pipeline with OpenCV for data augmentation & normalization.
* Optimized GPU-accelerated training with Adam optimizer, batch normalization, and hyperparameter tuning.
* Benchmarked TensorFlow vs PyTorch, demonstrating PyTorch’s +2.5% accuracy improvement and superior performance.

**Parallel Computing with GPU and CUDA (Collaborate with professor)**

* Conducted comparative analysis of Mandelbrot Set computations and image processing using CUDA on NVIDIA T4 GPUs versus CPU implementations with OpenMP, achieving over 10× speedup in computation time.
* Led the theoretical research and documentation efforts, translating complex parallel computing concepts into lecture materials, making GPU programming more accessible to students through simplified explanations and visual aids.
* Actively collaborated with team members responsible for coding to bridge the gap between theoretical concepts and implementation.

**WORK EXPERIENCE**

**French Video Editing Assistant Tech Nanjing Yuduoyou Information Technology Co Ltd | May2022 – Aug 2024**

* Independently edited French short videos, designed high-quality covers and visual content to optimize ad performance and increase brand exposure. Efficiently managed the entire production process, from planning and scriptwriting to editing, ensuring high-quality content delivery on time.
* Worked closely with product operations to refine key selling points, ensuring promotional videos aligned with market needs and supported major sales events (e.g., Double 11).
* Actively communicate with video editors from other language markets, analyzed viral videos across different languages, assessed content adaptability, and optimized video strategies for the French market to boost audience engagement.
* Improved video thumbnails and content based on performance data, increasing click-through and conversion rates. Achieved a 15%+ growth in ad exposure through targeted content marketing.

**SKILLS**

* **Programming:** Python, JavaScript, TypeScript, Java.
* **AI/ML:** TensorFlow, PyTorch, OpenCV
* **DevOps:** Git, Vercel, CI/CD
* **Frameworks:** Next.js, React, Node.js, Express.js
* **Web Technologies:** Tailwind CSS, SEO Optimization