

HUI ZHANG

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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 10x 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 | May 2022 - 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