Huibin Li

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Summary of Qualifications

- Over 6 years of experience in AI Algorithm development
- 3 years of academic experience in Chinese Academy of Sciences, Institute of Automation, (CASIA), the world's leading research institution
- Extensive Engineering and Academic Experience
- Comprehensive Full-Stack IT Skill Set, including developing, deploying, testing, and CI, CG
- Extroverted and articulate public speaker with a proven track record of delivering engaging presentations at conferences and events

Area Experience

Professional Skills
- Computer Vision
- 3D Reconstruction
- Generative AI
- Prompt Engineering
- Time Series Analysis
- Natural Language Processing
- Web Crawlers

Programming Languages and Frameworks
- Python
- Java
- TypeScript
- SQL
- Pytorch
- Latex
- NPM

Work Experience

- **Well Link Times** Beijing, China
  AI Lab intern *Nov. 2023 - May. 2024*
  - Followed up on, and reproduced the latest 3D AIGC research papers, conducted in-depth analysis on their performance, strengths and limitations.
  - Pioneered the application of sota diffusion models to generate highly detailed and realistic texture maps, achieved the best LPIPS and PSNR metrics. significantly enhancing the visual fidelity and aesthetics of 3D models and digital assets.
  - Designed and implemented interactive blender addons that effectively address spatial consistency challenges in 3D modeling, streamlining the workflow and ensuring the integrity and coherence of complex 3D structures.
  - Revolutionized game asset generation processes, dramatically reducing creation time from 3 days to a mere 30 minutes, enabling rapid iteration and significantly boosting production efficiency.
  - Based on LLM to develop an innovative prompt enhancement feature, significantly improving generated image quality. Optimized prompt effectiveness using multi-round dialogue techniques, reducing the average number of prompt words from 75 to 5 while maintaining high-quality output.
- **Tingyun** Beijing, China
  Algorithm Engineer *April 2015 - July 2021*
  - Leveraged Long Short-Term Memory (LSTM) neural networks to accurately forecast monthly active user counts, enabling proactive capacity planning. Developed a sophisticated resource planning algorithm for cloud server infrastructure, optimizing asset allocation and ensuring seamless scalability to meet dynamic user demands.
  - Pioneered an innovative URL aggregation algorithm that drastically reduced storage requirements by 95% by applying the fundamental concepts of information entropy, enabling efficient and comprehensive data collection at an unprecedented scale. This groundbreaking approach established a robust foundation for large-scale data acquisition, paving the way for advanced analytics and insights.
  - Designed and implemented a cutting-edge anomaly detection algorithm that performs real-time monitoring and identification of anomalies in massive, high-dimensional datasets from diverse internet sources. The solution monitors hundreds of critical metrics across servers, web pages, networks, and communications, enabling proactive issue detection and mitigation to ensure data integrity and reliability in dynamic environments.

Publications

- **CVPR, Third author** 2024
  SfmCAD, Unsupervised CAD Reconstruction by Learning Sketch-based Feature Modeling Operations
- **Patent, CN112116381A**
  Moon life prediction method based on LSTM neural network, storage medium and computer equipment

Other Experience

- **LLM based projects** *2022*
  - Developed a web-based question-answering client by embedding and vectorizing over 1 million PDF documents, enabling users to quickly find relevant information from a vast corpus of data.
  - Engineered a cutting-edge multilingual text alignment algorithm, boosting text matching accuracy from 70% to 95%. Leveraged the fine-tuning capabilities of large language models to create a powerful text translation feature.Implemented cost-saving measures that dramatically reduced translation expenses from 200 yuan to just 1 yuan per thousand characters, achieving a remarkable 99.5% cost reduction while maintaining high-quality translations
  - Pioneered an innovative WeChat chatbot solution powered by advanced LLM technology for four companies, Meituan, Kuaishou, Bytedances, Tusen, Ant Financial. This AI-driven chatbot autonomously addressed common inquiries from job applicants, significantly enhancing the efficiency and productivity of the HR department's recruitment process. By leveraging my chatbot's capabilities, successfully recommended over 3,000 qualified candidates to the client companies, demonstrating the impact and effectiveness of the technology in streamlining talent acquisition.
- **Stable Diffusion based projects** *2022*
  - Revolutionized architectural visualization by leveraging diffusion models to transform sketches into photorealistic renderings, streamlining the creative process and enhancing design communication.

Education

- **University of Chinese Academy of Sciences (UCAS), GPA 3.87/4** Beijing, China
  Master of Electronic and Information Engineering in Artificial intelligence *September 2021 - Present*
  - Thesis: High-quality automatic texture reconstruction and intelligent generation for 3D digital content production, under supervision of **Professor. Jianwei GUO**
- **Yancheng Institute of Technology (YCIT), top 10%** Jiangsu, China
  Bachelor of Science in Computer Science *September 2011 - May 2015*

  Assesed as equivalent to a Bachelor's degree (four years) in Canada by WES

Professional affiliations

- **Student Member, China Society of Image and Graphics** *2022-2024*
- **Alibaba Cloud Certified Professional, Cloud Computing** *2021-2023*

Certifications

- **The Information and Communications Technology Council, ITP Certificate** *2024*
- **Nvidia, Accelerated Computing Fundamentals, CUDA C/C++** *2022*
- **Coursera, Exploratory Data Analysis for Machine Learning** *2023*
- **IBM, AI Engineering Professional Certificate** *2021*

Talks

- **University of Political Science and Law** Beijing, China
  Invited speaker *Dec 2023*
  - Topic of the presentation: The development and future of large models
- **Youth science and technology innovation salon, UCAS** Beijing, China
  Invited speaker *Jan 2024*
  - Topic of the presentation: Popular science on large models