Huibin (Matt) Li

Obtained PR— Arriving in Toronto in July

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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

Work Experience

- **Well Link Times** — Beijing, China
  AI Lab intern — *Nov. 2023 - Present*
  - Developed and trained 3D mesh generation networks utilizing Generative Adversarial Network (GAN) and Variational Autoencoder (VAE) architectures,
  - Pioneered the application of state-of-the-art 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 innovative interactive tools 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.
  - Leveraged large-scale models 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. These advancements streamlined user input, enhanced user experience, and increased production efficiency and output quality in conversational AI systems.
- **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.

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

Other Experience

- **Institutes of Science and Development, Chinese Academy of Sciences** Beijing, China
  Cooperator *Sep 2023*
  - Pioneered the application of Large Language Models (LLM) to transform a local knowledge base (1 million PDF documents) into vectorized text representations. Developed an advanced question-answering system capable of seamlessly interacting with and extracting information from multiple PDF documents. This innovative solution empowers users to quickly access relevant insights and knowledge from extensive document collections, revolutionizing information retrieval and enhancing decision-making processes.
- **Beijing Institute of Architectural Design** Beijing, China
  Cooperator *Sep 2023*
  - Leveraged state-of-the-art diffusion models to revolutionize the visualization and stylization of architectural sketches. Developed a groundbreaking system that empowers architects and designers to effortlessly explore and select from a wide range of visual styles, transforming rough sketches into stunning, photorealistic renderings. This innovative approach streamlines the creative process, enhances design communication, and accelerates the iteration and refinement of architectural concepts.
- **Medical document translation company** Beijing, China
  AI Algorithm Engineer *Jun 2023*
  - 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.
- **Meituan, Kuaishou, Bytedances, Tusen, Ant Financial** Beijing, China
  Campus Ambassadors *Jun 2022 - Present*
  - Pioneered an innovative WeChat chatbot solution powered by advanced large language model technology. 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.
- **AI guide for China's 2023 National Science and Technology Week** Beijing, China
  Participated in a live broadcast hosted for the AI region by a local Beijing television station *May 2023*
- **Internal activities at the Institute of Automation** Beijing, China
  Host *Apr 2022 - Jun 2022*
  - Dialogue activity which topic about AI and film with Bo Yihang, professor of the Beijing Film Academy.
  - Antibiotic science popularization activity with Ye Sheng, professor of Beihang University in Beijing.
  - Hosted a Huawei PanGu large model activity with its leader Jianlong Chang
- **AI Academic Conference** Beijing, China
  Organizer *Jan 2022 - Apr 2022*
  - The 4th Beijing Universities AI Academic Forum
  - The AI Youth Academic Forum.
  - Leader of the Interdisciplinary Sharing Society at the CASIA

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