

# Chi Xing

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## Education

<b>University of Edinburgh</b>	Edinburgh, UK
M.Sc Artificial Intelligence	2024/09 – 2025/09
<ul style="list-style-type: none"><li>• Focused on various machine learning frameworks, ranging from basic neural networks to advanced modern architectures (Transformers, Diffusion Models, Visual Auto-Regressive Model, etc.)</li><li>• Dissertation is working on Efficient Geo-spatial Shifting Mechanism for Distributed Deep Learning Training Workloads. This project is supervised by <a href="#">Prof. Luo Mai</a>.</li></ul>	
<b>University of Liverpool &amp; Xi'an Jiaotong-Liverpool University</b>	Liverpool, UK
B.Sc Computer Science (1st class with honors)	2020/09 – 2024/07
<ul style="list-style-type: none"><li>• Research Interest Points: Algorithm Design, C++/C/C#, Machine Learning, Trustworthy AI, Java, Web Development.</li><li>• Thesis is focused on scheduling algorithms for modern smart grid. This project is supervised by <a href="#">Prof. Prudence Wong</a>.</li></ul>	

## Open Source Projects

<b>ServerlessLLM</b>	500+ Stars on Github
Core Contributor, Reviewer	2024/11 – Present
<ul style="list-style-type: none"><li>• Support ServerlessLLM deployment on <b>SLURM-based HPC</b></li><li>• Architected an <b>end-to-end serverless fine-tuning solution</b> to provide on-demand, cost-effective model customization within the ServerlessLLM ecosystem.</li><li>• Developed a <b>multi-tenant serverless serving solution for LoRA adapters</b>, achieving up to 4.4x faster loading speeds than safetensors by leveraging the multi-layer checkpoint loading mechanism.</li></ul>	
<b>Casibase</b>	3.8k+ Stars on Github
Core Contributor, Mentor in OSPP (Chinese GSoc) 2024	2024/01 – 2024/09
<ul style="list-style-type: none"><li>• <b>Optimized text splitting logic (RAG workflow)</b> to improve vectorized embedding for the knowledge base.</li><li>• <b>Expanded Casibase's capabilities</b> by integrating support for various LMs, including open-source and commercial models for chatting and embedding tasks. <b>Also enhanced Casibase with multimodality support.</b></li><li>• <b>Full-stack development:</b> backend services in BeeGo and frontend interfaces in React.js, applying the MVC design pattern to ensure loose coupling and maintainable code.</li><li>• <b>Developed an instant messaging system</b> for multi-agent functionality.</li></ul>	

## Work Experience

<b>N8 CIR</b>	Liverpool & York, UK
Research Intern@Computational Biology Facility	2024/06 – 2024/09
<ul style="list-style-type: none"><li>• <b>Focused on benchmarking various LLMs</b> for reading biomedical literature, utilizing Llama.cpp to quantize open-source models such as Llama3.1-70B, Llama3.1-405B, DBRX, and Mixtral-8x22B.</li><li>• <b>Developed an objective scoring system</b> that extracts key information from model outputs and evaluates their similarity to manually extracted data for performance benchmarking.</li><li>• <b>Designed a summarization method</b> to reduce input size, enabling the use of models with smaller context windows.</li><li>• <b>This work also involved comparing model performance</b> across different hardware platforms, including NVIDIA GH200, A100, and CPU/GPU references, and deploying LLMs on high-performance computing (HPC) architectures.</li></ul>	
<b>IFLYTEK</b>	Suzhou, China
SDE@R&D	2022/06 – 2022/09
<ul style="list-style-type: none"><li>• Enhanced the accuracy of location-based NLP tasks within the IFLYTEK “Police Super Brain” system by <b>conducting meticulous data annotation</b> and quality assurance, <b>correcting machine-labeled address POIs</b>, and applying foundational knowledge of <b>entity relationship extraction</b>.</li></ul>	

## Publication

<a href="#">Preference Alignment on Diffusion Model: A Comprehensive Survey for Image Generation and Editing</a>	Feb, 2025
<ul style="list-style-type: none"><li>• Preference Alignment on DMs Application section, investigated and summarised a set of application paradigms.</li></ul>	