Zexin Jian
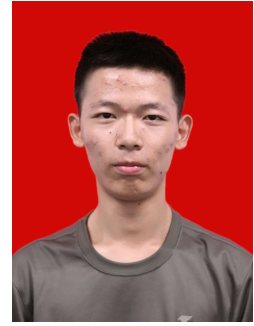
📞 (+86) 155-7423-3383 ✉ zexinjian@gmail.com 🔊 xinchen-jzx.github.io

My research interest includes:
- Managed Runtime System
- Machine Learning System
- Large Language Models (LLM)

I will continue to search, even if the endless stars make my search hopeless, even if I am alone.

🎓 Education Background

Sep.2021 ~ present **Changsha, China**	**National University of Defense Technology (NUDT)** *B.E. Student, School of Computer Science* Advised by Dr. Zengkun
Jun.2024 ~ present **Beijing, China**	**Chinese Academy of Sciences (CAS)** *Visiting Student, Institute of Computing Technology (ICT)* co-Advised by Dr. Huimin Cui and Dr. Chenxi Wang

📎 Research & Publications

- **[NeurIPS'24 CCF-A]** Zhihua Wen, Zhiliang Tian, **Zexin Jian**, Zhen Huang, Pei Ke, Yifu Gao, Minlie Huang, Dongsheng Li. *Perception of Knowledge Boundaries for LLMs via Semi-open-ended Question Answering*.
- **[ACL'23 CCF-A]** Zhihua Wen, Zhiliang Tian, Zhen Huang, Yuxin Yang, **Zexin Jian**, Changjian Wang, Dongsheng Li. *GRACE: Gradient-guided Controllable Retrieval for Augmenting Attribute-based Text Generation*.

</> Projects

SysY Compiler **Compiler Design** *2024-02~2024-08*

C++, LLVM, RISCV, Compiler Design, Multi-Threads Parallel
- Developed a fully functional compiler system for SysY2022 (a C Subset) using C++ as the primary programming language.
- Successfully passed all functional test cases, supporting lexical analysis, syntax analysis, semantic analysis, and target code generation.

mini RustOS **Operating System Design** *2024-09~2024-12*

Rust, X86, OS Design, Hybrid Kernel
- Developed an experimental operating system kernel for the X86 architecture using Rust as the primary programming language.
- Starting from the macro kernel, absorbing and learning from the design patterns of the micro kernel to improve security while ensuring certain performance.

🔧 Expertise

Programming	C++, Python, Rust
Skills	Linux, PyTorch, CMake, CUDA