Kian Kyars

✉ kkyars@ualberta.ca 🔗 sites.ualberta.ca/ kkyars 💼 kyars 🐙 kiankyars 🐦 neuralkian

Education

BSc Computer Science, Honours - University of Alberta C/O 2025 *Grade: 3.9/4.0*

Experience

Noemon October 2025 - January 2026
Machine Learning Engineer
- Developed an ARC-AGI-2 refinement solver with a ReAct approach on the Pareto frontier
- Created a context compaction technique improving 20% on the open source SoTA

fr8 Cohort 1.0 June 2025 - August 2025
- Developed the Factorio Learning Environment: an open-ended benchmark for LLM agents

Data-Driven Network and Cyber Security (DANS) Lab September 2024 - June 2025
Undergraduate Research Assistant
- Finetuned Qwen2.5, Llama 3, and DeepSeek R1 7-8B models with unsloth for provenance graph construction
- Performed adaptive anomaly detection locally on system logs with equivalent performance to GPT-4o

MANGA NLP Lab January 2025 - April 2025
Undergraduate Research Assistant
- Re-implemented Flora: a low-rank adaptation optimizer using random projections for gradient compression
- Empirical training speed increases up to 25% compared to LoRA w/ AdamW in 3B and 7B parameter LLMs

Hochschule für Technik und Wirtschaft Dresden May 2023 - August 2023
Summer Research Intern
- DAAD RISE Intern in reinforcement learning on the 7-DOF Franka Emika Robot arm
- Trained using Nvidia Omniverse Isaac Sim to perform block manipulation tasks using TRPO and PPO

Projects

OpenClaw Course February 2026
- Tutorial on setting up an autonomous agent & messaging gateway with Open Claw; 250k+ views

Pipeline Parallelism from Scratch January 2026

nanochat from Scratch October 2025
- Re-implemented and trained nanochat on an 8XH100 node with DeepSpeed ZeRO-2

Hugging Face Ultra Scale Playbook Series June 2025
- Created a 16-part video series covering the Hugging Face Ultra Scale Playbook to teach myself large-scale GPU orchestration through teaching others, recognized by Hugging Face CSO Thomas Wolf

Founder - UofA Run Club (UofARC) August 2024 - April 2025
- Created a weekly run club to gather community members together bright and early

Founder - UofACarpool March 2024 - April 2025
- Wrote algorithm and website for matching service that pairs university commuters to carpool together
- Featured on the University Newspaper

Interests

- Avid language learner (French and German) and runner (longest distance: 50 kilometers)