

# Kian Kyars

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## Education

**BSc Computer Science, Honours - University of Alberta**

C/O 2025 *Grade: 3.9/4.0*

## Experience

### Noemon

*Remote Machine Learning Engineer*

October 2025 - Present

- Improved the SoTA ARC-AGI-2 refinement approach by 5% with a ReAct approach

### 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

*Undergraduate Research Assistant*

2025

- 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

### 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](#)

## Extracurricular

### German Academic Exchange Service (DAAD)

August 2024 - July 2025

*Young Ambassador*

- Chosen as the unique ambassador of the DAAD for the UofA

## Interests

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