Kival **Mahadew**

Computer Scientist



About me

I am a highly motivated and skilled computer science graduate student with a strong passion for optimisation and machine learning. I am adept at quickly grasping new concepts and applying them to solve complex problems.I am looking to further my studies in the field of artificial intelligence and machine learning, with a focus on Cooperative Multi-Agent Systems.

Personal

Kival Mahadew Durban - South Africa 21 April 2003

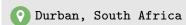
Reinforcement Learning, Multi-Agent Systems, Artificial Intelligence, Computational Cognition

Other Interests

Open-source projects, Backend Programming, Optimisation, WebAssembly, Competitive Programming

Hobbies

Video Games, Reading, Guitar



Contact

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KivalM

kivalm.com

EDUCATION

2024-Now

Bachelor of Science Honors in Computer Science

University of Kwa-Zulu Natal . 🏛

Coursework: Lattice Theory, Sequence Modelling, Computer Vision, Ontologies, Quantum Computing, Artificial Intelligence.

Research Focus: Cooperative Multi-Agent Reinforcement Learning

2021-2023 **Bachelor of Science in Computer Science (Cum Laude)**

University of Kwa-Zulu Natal · 🏛

Coursework: Software Design, Natural Language Processing, Machine Learning fundamentals.

RESEARCH EXPERIENCE

2024-now

Cooperative Multi-Agent Reinforcement Learning

STUDENT · University of Kwa-Zulu Natal ?

Investigated the Zero-Shot Coordination problem in Cooperative Multi-Agent Reinforcement Learning, specifically focusing on the game Hanabi. (in progress)

Professional Experience

2022-2023

Software Engineer (Lead) / ML Engineer

DEVELOPER · QuickAl 💡

Lead software at a USA-based startup - a platform that provides Data Science and Machine Learning solutions to businesses. Developed a platform that allows users to perform statistical analysis, data visualisation, and machine learning tasks entirely in the browser.

Built a high performance system for log capture and analysis.

Contributed to a variety of major open-source projects, including porting key functionality to WebAssembly.

2020-2022

Freelance Software Developer

Developer · Upwork 9

Catered to startups internationally, providing expertise in backend programming, API development, and microservices. Developed web applications using React, Yew, SvelteKit, TypeScript, and TailwindCSS. Specialized in WebAssembly development with Rust. Worked with various databases including Postgres and SurrealDB. Deployed and inferred systems based on LLMs. Engaged in pair programming and tutoring positions.

2021-2022

Competitive Programming Tutor

EDUCATOR · Star College 💡

Prepared high school students for the South African Programming Olympiad, guiding them in problem-solving and programming skills, leading to participation in the International Olympiad in Informatics (IOI).

ACHIEVEMENTS

2024 A2SV AI for Impact Challenge - Semi-Finalist (on-

going)

2024 Entelect Hackathon - Fifth

Place

2023 Cum Laude Graduate BBD Hackathon - Second 2022

Place

2020 South African Programming Olympiad Finalist

LANGUAGES

English **Afrikaans**

Limited working proficiency