Kival **Mahadew**

Software Engineer



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. With five years of experience as a freelance software developer, I have primarily worked with startups internationally.

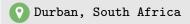
Personal

Kival Mahadew South African 2003

Areas of specialization

Optimisation, Machine Learning, Software Engineering

Open-source projects, Backend Programming, Machine Learning



Contact

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KivalM

🔇 kivalm.com

SHORT RESUMÉ

2020-2024

Freelance Software Developer

DEVELOPER · Upwork 💡

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.

2022-2023

Software Engineer (Lead)

DEVELOPER · QuickAl 9

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.

2021-2022

Primary Educator

EDUCATOR · Star College 9

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).

DEGREES

Present

Postgraduate Studies in Computer Science

University of Kwa-Zulu Natal · 🏛

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

Research Focus: Multi-Agent Reinforcement Learning.

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

University of Kwa-Zulu Natal · 🏛

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

ACHIEVEMENTS

LANGUAGES

2024	Entelect Hackathon - Fifth
	Place

2023 Cum Laude Graduate BBD Hackathon - Second 2022

Place

2020 South African Programming Olympiad Finalist

English Native

Afrikaans Limited working proficiency