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

Interests

Open-source projects, Backend Programming, Machine Learning

📍 Durban, South Africa

Contact

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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 · QuickAI 📍 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 📍 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

2024	Entelect Hackathon - Fifth Place
2023	Cum Laude Graduate
2022	BBD Hackathon - Second Place
2020	South African Programming Olympiad Finalist

Languages

English	Native
Afrikaans	Limited working proficiency