

Sifundo Mhlungu

Newcastle, KZN, +2767-040-1609

mhlungusk@gmail.com | [LinkedIn](#) | [Software Design Documents](#) | [Video Portfolio](#)

EXPERIENCE

Software Developer

Feb 2023 – Present

Darkpools AI/ML, Pretoria, GP

- Spearheaded development of 4 major React components, increasing presentations and funding proposals by 40%.
- Integrated a custom JavaScript dataframe into the ML suite, completing an 8-month stale component in 3 weeks.
- Developed an OCR project analyzing supermarket receipts for fraud, generating over R70,000 in revenue.
- Created a media monitoring tool for election security, improving reporting accuracy by 70%.
- Boosted team productivity by 25% by decomposing a monolithic Python server into microservices using Deno, Golang, and Python.
- Reduced model development time by 50% by implementing a TypeScript version of the Kedro pipeline.
- Improved application performance by migrating from Electron.js to Golang Wails, reducing app size by 88% and load speed by 83%.
- Cut server costs by 97% by migrating legacy infrastructure from AWS to Supabase, reducing monthly expenses to \$25.

Freelance Programmer

Aug 2022 – Feb 2023

Fiverr

Remote

- Developed and implemented a custom fuzzy search engine, boosting search speed and responsiveness by more than 50%.
- Successfully integrated a custom Neo4j Graph Chart TypeScript wrapper (neo4jd3-ts) into a client's application within a tight deadline, resulting in a full-time job offer.
- Consistently maintained a 5-star rating for service and delivery.

Assistant Teacher

Nov 2021 – Aug 2022

St. Lewis B. High School

Newcastle, KZN

- Mentored and tutored 10th and 9th-grade math classes as well as 11th-grade geography classes.
- Handled grading responsibilities and offered helpful feedback to support student academic progress.
- Received promotion to independently teach 9th-grade math classes, during the tenure.

PROJECTS

Kata | Golang, Bubble tea, Google Cloud API, Sqlite3

Sept 2024 – Present

- Created an all-in-one CLI app integrating email, task management, music, RSS, SSH, and monitoring tools.
- Boosted productivity and optimized task management efficiency by over 70%.
- Leveraged Golang channels for parallel computing, enhancing speed and handling asynchronous tasks efficiently.

Bokke.js | JavaScript/Typescript, Npm, wabt, Chart.js, Git

Sep 2022 – March 2023

- Built a custom DataFrame implementation in TypeScript, powering the entire ML suite at Darkpools.
- Achieved 20x speed improvement and seamless UI updates using web workers.

TECHNICAL SKILLS

Languages: Typescript/Javascript (Advanced), Golang (Proficient), Python (Intermediate), Ruby, PHP, Java (Beginner)

Frameworks: React/Preact, Astro.js, Express.js, FastAPI, Django, Gin, Gorilla Mux

Tools & Software: Neo4j, Deno, Node, Docker, Google Cloud, RabbitMQ

Databases & BaaS : MySQL, PostgreSQL, Redis, MongoDB, Supabase

Additional: Machine Learning, Fraud Detection, OCR, CI/CD, GitHub, CLI Apps, Project Management, Vercel

EDUCATION

University of KwaZulu-Natal

Durban, KZN

Bachelor of Social Science in Philosophy, Criminology, and Forensic Studies

Nov 2020

- Dean's Commendation, 2020.
- Top 15% Golden Key Award, 2019.