CARL NXUMALO
Software Developer

I am a motivated individual passionate about software development and eager to make a positive impact on South Africa's IT industry. I am committed to enhancing my skills and acquiring the knowledge needed to become a proficient software developer.

Contact

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Latest Projects

MIN-BOX, a web-based academic communication tool (Link)

- Developed a SvelteKit application to address repeated student messages sent to lecturers.
- Created a public mailbox system where students can view messages sent to lecturers, reducing duplicate inquiries.
- Integrated NLP search functionality (*using sentence-transformers/paraphrase-multilingual-MiniLM-L12-v2 API)* to find and display similar messages.
- Improved communication efficiency between students and lecturers by minimizing message redundancy.

FNB Data Quest Challenge (Link)

- Analyzed customer data to predict loan repayment likelihood using logistic regression.
- Built a predictive model to assess loan repayment probabilities, aiding in risk management.
- Applied statistical methods to clean and preprocess large datasets, ensuring data accuracy and reliability.
- Provided actionable insights into customer behavior and repayment trends, supporting informed decision-making with 95% accuracy.

Education

Bachelor of Science in Information Technology
Institution: North-West University
Year of Graduation: 2024

- Earned 25 Distictions out of 26 modules
- Academic average of 83%
- SAP Bursary student

Relevant Skills

- Web & Desktop Development
- SQL
- Object Orientated Programming
- Languages: C#, Java, Python, Java Script HTML & CSS

Technologies

- Frameworks: SvelteKit, Node.js, .NET Framework
- Databases: Microsoft SQL Server, PostgreSQL, Oracle
- Cloud Services: Supabase, Microsoft Azure, Vercel
- Machine Learning: Scikit-learn
- UML Tools: Draw.io