Inga Maholwana

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https://github.com/IngaMaholwana

EDUCATION

Wethinkcode - Higher Certificate in Information Technology Cape Town, Western Cape
Higher Certificate in Information Technology *Completed - 2024*

University of The Western Cape - Bachelor of law Cape Town, Western Cape
Bachelor of Law LLB *Expected - 2028*

EXPERIENCE

Tshaka Scholar Transportation Dec 2019 – Aug 2020
Cape Town *Western Cape*
- Maintained comprehensive operational databases to track vehicle performance, driver schedules, route efficiency, and passenger capacity optimisation. Produced detailed analytical reports on fleet utilisation, revenue trends, and operational metrics to support strategic decision-making. Executed daily banking operations, including cash deposits and transaction verification, while maintaining detailed financial audit trails to ensure full fiscal transparency and compliance.

PROJECTS

FullChessRuby | *Ruby* Jan 2025 – April 2025
- ∗ Developed a fully featured command-line chess application in Ruby, implementing complete rule enforcement for all standard chess mechanics
- ∗ Integrated YAML-based serialization to enable saving and loading game state, supporting seamless game continuity and user persistence.
- ∗ Used bundler for dependency management and colorize for enhanced UI
- ∗ RSpec test suite to validate core game logic and piece interactions, ensuring stability and correctness through test-driven development (TDD) principles.

Ugrandjojo | *typescript, azure/openai* May 2025 – May 2025
- ∗ Designed a full-stack Visual Studio Code extension during the Microsoft South Africa x Geekulcha "AI for Good" hackathon
- ∗ ntegrated Azure OpenAI (GPT-3.5 Turbo) to provide real-time, context-aware code analysis and feedback through a set of custom AI personas enhancing developer engagement and support.
- ∗ Leveraged the VS Code Webview API to render dynamic sprite animations and AI-generated code commentary via JSON-driven UI logic, offering a unique blend of motivation and technical insights.

Turtle maze | *Python, turtle* May 2025 – May 2025
- Developed a maze game that generates randomised mazes with dynamically placed exits and obstacles
- Combined both graphical(Turtle library) and text based interfaces
- Enabled users to replay previous moves, demonstrating basic data structure usage (e.g lists, stacks) for movement history tracking and data manipulation.

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, HTML/CSS, R, Ruby, .NET
Frameworks: React, Node.js, Flask, JUnit, Unittest, WordPress, Material-UI,Spring Boot, FastAPI
Developer Tools: Git, Docker, Azure, Amazon Web Services, Google Cloud Platform
Data and Analytics: Power BI, Tableau, Spreadsheets, Excel, Mathematical and Statistical Computation
Soft Skills: Communication, Teamwork, Presentation, Problem Solving, Time Management, Critical Thinking

CERTIFICATES

- **Google Career Certificate Data Analyst**: Data analysis, Data cleaning, Data visualization, R programming, Data-driven decision making, Calculation and analysis in SQL and Spreadsheets, Effective presentations.
  Google Cybersecurity Certificate: Cybersecurity Foundations, Networking, Security Principles, Linux, Command line skills, Threat detection, Prevention, Security tool, Incident response, investigation, Scripting.
  Wethinkcode GenAI: Claude AI, Google Gemini, Bard, GitHub copilot, learning using AI, Documentation, Unit-testing
  LPCertificate Microsoft Power-Bi: Data analysis, Big Data, Statistical data analysis, Data modeling.
  LPCertificate Microsoft Office 365 - Excel - UWC: Data entry, spreadsheet creation and formatting, data entry, formulas data organisation.
  Microsoft foundation C sharp: C sharp Syntax Programming Concepts,Object-Orientated Programming (OOP) in C, Error Handling, Working with the.NET Framework, Debugging, and Code Quality.
  Cisco Networking Academy Linux: Linux Basics, Operating System Concepts, Command Line Proficiency, User and Permissions Management, Text Editors , File Handling,Package Management, Processes and System Monitoring, Basic Networking in Linux, Shell Scripting.