

Reage Nkoana

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SUMMARY

BSc IT graduate with a strong foundation in **Computer Science and Informatics**. Experienced in developing full-stack web and mobile applications using technologies such as C#, .NET, JavaScript, and Java. Proficient in database management, API development, and client-server systems. Familiar with Agile methodologies and DevOps practices, with hands-on experience in tools like Git, SQL, and Azure. Demonstrates strong problem-solving, communication, and teamwork skills. Adaptable, quick to learn new technologies, and motivated to contribute to innovative and collaborative environments across various tech roles.

SKILLS

- **Programming & Tools:** Python, Java, JavaScript, C#, .NET, SQL, Git, Postman
- **Web & App Development:** HTML/CSS, ASP.NET, MVC, .NET MAUI, Xamarin, Node.js
- **Databases:** MySQL, SQL Server
- **Architecture:** REST APIs, Client-Server Systems (Java I/O), Blockchain
- **Testing & DevOps:** API Testing, GitHub CI/CD, Azure
- **Soft Skills:** Critical thinking, collaboration, communication, adaptability
- **Methodologies:** Agile, DevOps, SDLC

EDUCATION

- **Bachelor of Science in IT (Computer Science and Informatics)** | University of Johannesburg | 2021-2024
- *Modules: IT Management, Mathematics, Computer Science and Informatics*
- **Matric** | Hoërskool Birchleigh, Kempton Park | 2020

PROJECTS

UJCvil—Full-Stack Developer (Final-Year Academic Project)

The University of Johannesburg Civil Society Club | Johannesburg, South Africa | January 2024 – November 2024
- [Access to GitHub repository restricted per academic guidelines](#) — [Video demo link](#)

- Led the development of a **full-stack club management system** in a team of 4 and collaborating with a faculty mentor to align deliverables with club requirements:
 - **Geolocation attendance tracking:** Eliminated manual attendance checks by automating point rewards via geolocation, reducing errors by 50% (estimated).
 - **Points marketplace:** Peer-to-peer transfers, rewards (excursions/merchandise), and secure payment gateways.
 - **Admin dashboard:** Analytics for data-driven decisions, bulk notifications, and event galleries.
 - **Smart recommendations:** Suggested events based on user attendance history.
- Designed **RESTful APIs** and responsive UI/UX, **reducing manual tasks by 40%** via automation.

FarmCare

-FarmCare — [GitHub repository](#)

- Engineered a **Java** and **JavaFX** application to track livestock vaccinations using **blockchain**.
- Implemented custom **client-server architecture** using Java I/O streams.
- Enhanced **data integrity** using SHA-256 **cryptographic hashing** to prevent tampering of livestock records.

Earthwise E-Commerce Platform

-Earthwise — [GitHub repository](#)

- Collaborated with a team of 4 to design a **full-stack e-commerce platform** focused on **eco-friendly products**.
- Built using **ASP.NET**, **WCF services**, and **SQL Server**, with a modular and scalable architecture.
- Implemented secure user authentication, product catalogue, and shopping cart functionality.

Machine Learning Snake Agent Simulation

-Machine Learning Snake Agent Simulation — [GitHub repository](#)

- Engineered an AI-driven Snake Game using **Python**, **PyTorch**, and **Pygame**.
- Trained AI agent to adaptively improve path-finding efficiency, reducing average game-over time by 30% (estimated) through iterative learning.

ONLINE CERTIFICATIONS & AWARDS

- **Artificial Intelligence in the 4IR** | Awarded (UJ, 2022)
- **Advanced Information Literacy** | Awarded (UJ, 2024)
- **Financial Literacy (Be Money Wise)** | Awarded (UJ, 2024)
- **Sustainable Development Goals (SDGs)** | Awarded (UJ, 2024)