

Sandile Nkosi

AI Automation Engineer | AI Engineer | Software Engineer

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Professional Summary

AI Automation Engineer with a strong software engineering foundation and hands-on experience integrating AI-driven solutions into real-world business systems. Skilled in building automated workflows, API integrations, and intelligent applications using Python, cloud platforms, and modern frameworks. Experienced in prompt engineering, system integration, and scalable application design. Salesforce AI Certified Associate with a proven ability to translate business processes into efficient, secure, and automated solutions that reduce manual effort and improve data accuracy.

Skills

- **Programming Languages:** Python, JavaScript (ES6+), PHP, C#, Java, Apex, SQL
- **AI / ML & Data:** Scikit-learn, TensorFlow (foundational), PyTorch (foundational), Pandas, NumPy, Prompt Engineering, Automated Evaluations
- **Automation & Integration:** REST APIs, Webhooks, Salesforce Automation, Power Automate (exposure), RPA Concepts
- **Frameworks & Platforms:** Django, Node.js (Express), Laravel, ASP.NET MVC, .NET Core, Salesforce LWC & Apex
- **Cloud & DevOps:** Microsoft Azure, Azure DevOps, Git/GitHub, CI/CD Pipelines
- **Databases:** PostgreSQL, SQL Server, MySQL

Experience

Salesforce Developer - Quarphix Company **Jun 2024 - Present**

- Designed and developed automated business solutions using Salesforce Apex, LWC, and declarative automation tools.
- Integrated Salesforce with external systems via REST APIs and secure data exchanges.
- Built AI-ready data models and reporting dashboards to support intelligent decision-making.
- Assisted in testing, monitoring, and optimizing automated workflows during agile sprints.
- Provided application support and system monitoring to ensure reliability, scalability, and data integrity

Software Development Intern - Phuthuma Technologies **Feb 2023 - Feb 2024**

- Developed internal automation tools and web applications using JavaScript, Vue.js, and Python-based backends.
- Participated in system integration and data conversion projects involving multiple platforms.
- Analyzed business workflows and proposed automation improvements to reduce manual processing.
- Produced technical documentation supporting scalable system design and maintenance.

Education

Advance Diploma - Information Technology (ICT Application Development) **Feb 2021**
Durban University of Technology - *Status:* Complete

National Diploma - Information Technology (ICT Application Development) **Nov 2019**
Durban University of Technology - *Status:* Complete

Certifications

- Salesforce Certified Administrator (Credential) – [View](#)
- Salesforce AI Certified Associate (Credential) – [View](#)
- Salesforce Certified Agentforce Specialist (Credential) – [View](#)
- Salesforce Certified Platform App Builder (Credential) – [View](#)
- Microsoft Certified: Data Engineer Associate (Credential) – [View](#)

Projects

AI-Ready Exam Engine Platform

Python, Django, Tailwind CSS

- Developed a secure online assessment system with automated evaluation logic.
- Designed data models suitable for future ML-based performance analytics.
- Implemented scalable APIs and role-based access controls.

Intelligent Intern Tracking System

Salesforce, Apex, LWC, SOQL

- Built automated tracking workflows for intern performance and onboarding stages.
- Designed dashboards and data structures to support AI-driven insights.
- Integrated reusable UI components with real-time reporting.

Recruitment Platform (Automation-Focused)

Vue.js, Node.js, REST APIs

- Developed a job platform with automated applicant tracking workflows.
- Implemented API-driven integrations and dynamic routing.
- Optimized data flow for scalability and future AI enhancements.

Hotel Management System (Final-Year Project)

C#, ASP.NET MVC, SQL Server

- Built a full-featured management system with automated booking and billing workflows.
- Designed secure, scalable architecture with validated CRUD operations.

References

Name: Charles Tumwebaze
Company: Quaphix
Position: Tech Manager
Email: charles@quarphix.co.za

Name: Puleng Maphela
Company: Quaphix
Position: Supervisor
Email: puleng@quarphix.co.za

Name: Neliswa Mpungula
Position: Director of Phuthuma Technologies
Work Number: 073 246 8422