

Sibongokuhle Bembe

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Professional Summary

Computer Science graduate with expertise in AI and Machine Learning, full-stack development, and cloud computing. Experienced in designing, building, and deploying AI-powered applications and intelligent systems, integrating ML/NLP models, and developing data-driven dashboards. Proficient in Python, AI frameworks, and cloud deployment on Microsoft Azure. Eager to contribute AI and ML expertise to innovative projects in collaborative environments.

Technical Skills

- Programming & ML Foundations:** Python, Java, JavaScript, TypeScript, SQL, PL/SQL, Kotlin, ML, NLP, LLM Integration, Generative AI
- AI/ML Frameworks & Tools:** scikit-learn, Pandas, NumPy, Hugging Face Transformers, OpenAI API, Prompt Engineering, Model Training & Evaluation
- Web Development & APIs:** HTML, CSS, React, Node.js, Django, Flask, RESTful APIs
- Data & Visualization:** Power BI (Reports & Dashboards), Jupyter Notebook, Power Query, Data Cleaning & Preprocessing
- Cloud & DevOps:** Microsoft Azure (Fundamentals), Git, GitHub, Docker, GlassFish
- IDEs & Productivity Tools:** VS Code, NetBeans, Android Studio, Sublime Text, Figma
- Operating Systems: Windows, Linux (Command Line, Troubleshooting)
- Soft Skills:** Problem-Solving, Critical Thinking, Teamwork, Communication, Adaptability, Time Management

Experience

Full-Stack Developer Intern – Capaciti | Nov 2025 – Current

- Designed and deployed AI-powered web applications integrating ML models and NLP components for intelligent features.
- Built responsive front-end interfaces with React, TypeScript, HTML, and CSS for seamless user experience.
- Integrated LLM-based solutions and generative AI APIs to create interactive tools.
- Managed version control using Git and GitHub, ensuring collaborative and maintainable workflows.

Data Science Intern – Netcampus | Nov 2024 – Oct 2025

- Developed data pipelines and cleaned datasets to enhance integrity and prepare for ML modeling.
- Built interactive Power BI dashboards to visualize key business and analytical insights.
- Gained cloud exposure and earned Microsoft Azure Fundamentals (AZ-900) certification.

Web Development Trainee – Umuzi | Nov 2023 – Dec 2023

- Implemented HTML, CSS, and JavaScript fundamentals in structured projects.
- Practiced collaborative development workflows using Git and GitHub.
- Delivered assignments within Agile sprints, simulating real-world software development practices.

Education

Diploma in Computer Science | Feb 2022 – 2025

Tshwane University of Technology

Relevant coursework: Object-Oriented Programming, Web Development, Software Engineering, Database Systems, Mobile App Development, Data Structures & Algorithms, Information Security, Operating Systems, Computing Fundamentals.

Certifications

- Microsoft Azure Data Fundamentals (AZ-900) | Microsoft, Jan 2025
- CompTIA A+ | CompTIA, Oct 2025

Portfolio & Projects

- AI Resume Builder: Generated ATS-friendly resumes using Python and OpenAI API.
- Custom Content Generator: Built generative AI tool for marketing and educational content using Hugging Face and prompt engineering.
- Sentiment Analysis Dashboard: Deployed text sentiment classification with multi-class outputs and visualization using Streamlit.
- Bias Audit ML Tool: Conducted ethical AI audits on datasets/models using fairness toolkits (IBM AI Fairness 360).