

Twisisani Howel Khosa

Software Developer | AI Automation Specialist | Full-Stack Engineer | Cybersecurity Analyst

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Professional Summary

Junior Software Developer with hands-on experience building full-stack enterprise applications and AI-powered systems. Strong background in Java, Spring-style backend development, ASP.NET Core, and React, with practical exposure to workflow automation, QA engineering, and cloud-integrated solutions. Proven ability to design and implement scalable systems, automate business processes, and improve application reliability through testing and optimization. Seeking to contribute to a high-impact development team while growing into a senior engineering role.

Core Technologies

Java | Python | C# | JavaScript | Docker | PostgreSQL | MongoDB | Google Sheets | Packet Tracer | Azure AI | n8n | Git | AWS Cloud

Key Achievements

- Developed an AI-assisted procurement system integrating Azure OpenAI and Semantic Kernel for intelligent workflow automation.
- Iterated on AI agent integrations, successfully evolving models from static environments to actively pulling data from live databases and Google Sheets.
- Automated backend workflows using n8n and Webhooks, significantly reducing manual operational processes.

Technical Skills

Programming Languages

Java, Python, JavaScript, Kotlin, SQL, PL/SQL

Analytics & Systems

Workflow Automation, Data Processing, API Integration, System Monitoring

Frameworks and Libraries

React, NestJS, Django, Prisma ORM, Tailwind CSS

Platforms and Technologies

Azure AI, AWS, Docker, n8n Automation, Linux (Ubuntu)

Databases

PostgreSQL, MongoDB, MySQL Workbench, Google Sheets

Development Tools

Git, GitHub, CI/CD, Visual Studio Code, NetBeans

Professional Experience

Intelliscent Technologies — Sandton, South Africa

Software Developer Intern

Aug 2025 – Jan 2026

- Developed an AI-assisted procurement system enabling data-driven decision-making and improving visibility into operational workflows, reducing manual processing risks.
- Refactored backend services using MongoDB, resolving DBRef and serialization issues and improving data integrity across Dockerized environments.
- Redesigned frontend interfaces using Tailwind CSS, improving usability and user interaction.
- Implemented automated system notifications using n8n workflows and Webhooks integrated with PostgreSQL.
- Collaborated with development teams to enhance voice-interaction capabilities within enterprise systems.

Education

National Diploma in Computer Science Tshwane University of Technology - Pretoria, South Africa

Status: Graduated (April 2026)

Certifications

AI & Automation

- Agentic AI Development with Azure & Semantic Kernel – *Udemy*
- n8n - AI Agents, AI Automations & AI Voice Agents – *Udemy*
- Gen AI Course for Professionals – *WeThinkCode*
- Overview of AI – *Huawei ICT Academy*

Software & Cloud Engineering

- Full-Stack Web Development Bootcamp – *Udemy*
- AWS Academy Graduate: Cloud Foundations – *AWS Academy*
- Data Science & Analytics – *HP LIFE Foundation*

Cybersecurity & Networking

- Junior Cybersecurity Analyst Career Path Exam – *Cisco Networking Academy*
- Cyber Threat Management – *Cisco Networking Academy*
- Networking Basics – *Cisco Networking Academy*
- Industrial IoT and Control Systems in Manufacturing – *Cisco Networking Academy*

Risk & Data Analytics Exposure

- Experience working with structured and unstructured data in enterprise systems
- Exposure to system monitoring, anomaly detection, and workflow optimization
- Understanding of operational risk through incident management and SLA tracking
- Familiar with automation tools (n8n, APIs) for data-driven decision processes
- Strong interest in credit risk, fraud analytics, and financial decision systems

Quantitative & Analytical Skills

- Data Analysis (SQL, Python basics for data handling)
- Logical & Analytical Problem Solving
- Process Optimization & Performance Monitoring
- System Behaviour Analysis
- Reporting & Insights Generation (via workflows and logs)

Additional Information

- **Languages:** English, Xitsonga
- **Areas of Interest:** Risk Monitoring & Automation, Credit Risk & Lending Systems, Fraud Risk Analytics, Decision Science & Data-Driven Systems

Core Competencies

Backend Development | Full-Stack Application Development | AI-Powered Systems | Workflow Automation