



MARIUS SENEKAL

FULL-STACK SOFTWARE DEVELOPER | SOFTWARE ENGINEER

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- Roodepoort, Gauteng
- [Portfolio & Projects](#)

All information concerning my resume is to be kept in strict confidence. No one may divulge this information to any third party nor contact my present employer.

Education

Diploma in Systems Development

Boston City College

2021

Certifications

WordPress Development

Udemy, 2022

Telkom Infrastructure & Products

Call Centre Technical Training
Telkom, 2017

Technical Skills

Frontend Development

Vue.js & Nuxt.js

JavaScript (ES6+)

HTML5 & CSS3

Vuetify UI Framework

Core Competencies

✓ Full-Stack Development

✓ Frontend (Vue.js, Nuxt.js, Flutter)

✓ Backend (Python, Node.js)

✓ Database Architecture
(PostgreSQL)

✓ RESTful API Design

✓ Cloud Infrastructure (AWS,
Azure, Oracle)

✓ DevOps & Docker

✓ Real-time IoT Systems

Professional Summary

Full-Stack Software Developer with 4+ years of professional experience designing, building, and maintaining production-grade applications across the entire technology stack. Expert in developing scalable backend systems (Python, Node.js, PostgreSQL) and modern frontend applications (Vue.js, Nuxt.js, Flutter). Proven track record of delivering complete end-to-end business solutions including inventory management systems, logistics tracking platforms, HR management tools, and real-time IoT data processing systems. Strong expertise in cloud infrastructure (AWS, Azure, Oracle Cloud), RESTful API development, database architecture, and CI/CD workflows. Demonstrated ability to bridge technical and business requirements, optimize system performance, and deliver high-quality solutions that drive operational efficiency.

Flutter (Mobile Development)

Responsive Web Design

Backend Development

Python

Node.js & Express

RESTful API Design

Bash Scripting

Asynchronous Processing

MQTT & IoT Systems

Database & Data

PostgreSQL (Advanced)

SQL & PL/pgSQL

Database Architecture

Query Optimization

Materialized Views

pg_cron Task Scheduling

pgREST API Generation

Cloud & DevOps

AWS S3

Oracle Cloud Infrastructure

Azure Service Bus

Docker & Docker Compose

Nginx Web Server

Linux Server Administration

Architecture & Design

Full-Stack Architecture

System Integration

Microservices Design

Real-time Data Processing

Experience

Software Engineer (Full-Stack)

Digital Twin

2022 – Present

- **Full-Stack Development:** Designed and developed complete end-to-end solutions using Vue.js, Nuxt3, and Vuetify for frontend, with Python and Node.js for backend services
 - **Backend Systems:** Built scalable backend architectures for real-time IoT data processing using Python, PostgreSQL, and MQTT protocols for edge device integration
 - **Database Engineering:** Architected complex database schemas, wrote advanced PostgreSQL functions (PL/pgSQL), optimized queries, and implemented materialized views for performance enhancement
 - **API Development:** Designed and developed RESTful APIs using pgREST and Node.js, tested and documented using Postman, enabling seamless frontend-backend integration
 - **Cloud & Infrastructure:** Configured and managed Azure Service Bus queues, deployed Docker containerized applications, and orchestrated multi-container environments with Docker Compose
 - **Frontend Development:** Built responsive, user-friendly interfaces using Vue.js/Nuxt3 framework with modern JavaScript (ES6+), HTML5, and CSS3
 - **Automation & DevOps:** Implemented automated database operations using pg_cron, developed Bash scripts for system tasks, and maintained test environments
 - **Production Support:** Resolved critical SLA-related production issues, performed data integrity corrections, and maintained system reliability for business-critical operations
 - **Technical Leadership:** Conducted code reviews via Bitbucket/GitHub, mentored team members on best practices, and trained field services teams on system operations and architecture
 - **Stakeholder Engagement:** Collaborated with clients and stakeholders through regular technical updates, gathered requirements, and provided technical support and troubleshooting
 - **Agile Development:** Managed work via Jira boards, handled SLA tickets, contributed to new project implementations, and delivered on scoped project requirements
 - **Documentation:** Created comprehensive technical documentation for processes, system changes, and architectural decisions
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Scalable System Design

Security & Best Practices

Authentication & Authorization

RBAC Implementation

Audit Logging

Data Security

Disaster Recovery

Development Tools

Agile Methodology

Git (GitHub/Bitbucket)

Jira & Agile Workflows

Postman API Testing

VS Code

Code Review & Documentation

Full-Stack Developer – Independent Projects

Personal Business Solutions Development

2020 – Present

- **Inventory Management System:** Architected and developed a complete production-grade inventory management platform with real-time stock tracking, automated reservations, and document processing for automatic stock updates via packing slips
- **Logistics & Fleet Management Platform:** Built an end-to-end logistics tracking system featuring AWS S3 cloud storage integration, mobile image capture, digital signature collection, and comprehensive tracking for full and partial collections
- **HR Management System:** Designed and implemented a complete HR solution with employee records management, leave request workflows, approval systems, and automated leave balance calculations
- **Business Intelligence Dashboard:** Created interactive reporting dashboards with real-time data visualization, charts, and business analytics for operational insights and decision-making
- **Mobile Application Development:** Developed a Flutter mobile app for field workforce management with GPS-based task tracking, time-on-site monitoring, and offline data synchronization
- **Security & Access Control:** Implemented comprehensive role-based access control (RBAC) across all systems with granular permissions and audit logging for complete system traceability
- **Cloud Infrastructure:** Deployed and managed Oracle Cloud Infrastructure with automated backup systems, disaster recovery scripts, and monitoring solutions
- **System Integration:** Unified all business systems into a single integrated platform with shared database architecture, ensuring data consistency and seamless cross-system functionality
- **Technology Stack:** Python, Node.js, Vue.js/Nuxt.js, Flutter, PostgreSQL, Oracle Cloud, AWS S3, Nginx, Docker

IT Technician / Technical Support

Landshark IT

January 2018 – May 2019

- Provided IT infrastructure support including hardware installation, network configuration, and system troubleshooting
- Managed client SLAs and delivered on-site and remote technical support services

Junior IT Technician

CMIT

June 2014 – July 2016

- Installed and maintained IT systems, networks, and provided hardware/software support

