Siyabonga Soko

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Summary

Full-Stack Software Developer with extensive experience in web application development, specializing in Django, React, Python, JavaScript, and database solutions. Currently developing a comprehensive Learning Management System with integrated modules, assessment systems, and RESTful APIs. Skilled in database optimization, API development, multi-tenant architecture, and Agile methodologies with a proven track record of delivering quality solutions on schedule.

Professional Experience

Full-Stack Developer (Remote)   **August 2025–Present**

- Developing comprehensive Learning Management System using Django, Django REST Framework, and React with integrated modules for user management, course delivery, and assessment systems.
- Implemented JWT authentication with OTP email verification, role-based access control, and multi-tenant architecture supporting multiple vendors with complete data isolation.
- Restructured monolithic API architecture into modular design, organizing code into specialized view and serializer modules, improving maintainability and testability.
- Developed RESTful API with automated email system, comprehensive file upload management, and audit trail logging using Django middleware.
- Built interactive Hotspot question builder with canvas-based drawing tools for creating clickable areas on images.
- Implemented organizational hierarchy management system with multi-level structure, organogram visualization, and user assignment capabilities.
- Optimized MySQL database performance through indexing strategies and query optimization, designing database models with complex relationships.
- Developed responsive frontend interfaces using Bootstrap, CoreUI, and custom JavaScript components with real-time notifications and dynamic form validation.
- Established Git workflows, automated testing suites, and comprehensive API documentation, maintaining high code quality.

Key Projects

Doctors' Appointment Management System (DAMS)   **React, Django, MySQL**

- Developed HIPAA-compliant scheduling system handling 500+ daily appointments with real-time availability updates and automated notifications.
- Implemented role-based access control with 95% reduction in unauthorized access attempts and comprehensive audit trails.
- Optimized MySQL database queries and indexing, reducing load times from 4.2s to 2.9s and improving system performance by 30%.

Technical Skills

Languages: Python, JavaScript/TypeScript, SQL, HTML5, CSS3, C#, Java

Frameworks & Libraries: Django 4.2.20, Django REST Framework 3.15.2, React, Next.js, Bootstrap 5.3.3, CoreUI 5.4.3, Material UI, Node.js, Express.js, ASP.NET Core, django-ckeditor, django-cors-headers, django-extensions

Databases: MySQL, PostgreSQL, MS SQL Server, MongoDB, Redis

Authentication & Security: JWT (djangorestframework-simplejwt), OAuth2, OTP, RBAC, reCAPTCHA, CORS, CSRF Protection, Token Blacklisting

DevOps & Tools: Git Workflows, Linux, Nginx, CI/CD Pipelines, WhiteNoise, Waitress

Testing & Quality: Unit Testing, Integration Testing, Postman, API Testing, Code Review, Django Test Framework

Development Tools: Git, VS Code, PyCharm, Postman, JIRA

Architecture Patterns: RESTful APIs, MVC, Multi-tenant, Event-driven, Microservices, Modular Architecture

Methodologies: Agile/Scrum, TDD, Code Review, Documentation, Version Control, API Documentation

Education

BSc Information Technology   **2022–Present**
North-West University (NWU)   Potchefstroom, South Africa
1 module remaining to complete

Occupational Certificate: Software Development   **2024–2025**
ZTQ Solutions   Centurion, South Africa

National Senior Certificate - IT   **2016–2020**
Hoerskool Generaal Hertzog   Emalahleni, South Africa

Leadership & Achievements

Technical Leadership & Mentoring   **2024–Present**

- Mentored junior developers in full-stack development, JavaScript, Python, and Django, achieving high project completion rates.
- Collaborated with cross-functional teams in Agile/Scrum environments, delivering applications on schedule.
- Established coding standards, code review processes, and documentation practices, improving code quality and reducing bug reports.