RHULANI KGOSI MOGOTSI

Junior Backend Developer

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A curious and goal-driven github-certified developer with a certification in Software Engineering and over 5 years of development experience in Python, JavaScript & SQL. Extensive experience writing clean and efficient code to develop robust and scalable backends, with a focus on REST API Development. Currently focused on FinTech and AI Development and eager to apply myself.

WORK EXPERIENCE

WEB DEVELOPER, KNOWESCAPE CONSULTING

08/2023 - 05/2024

- Created detailed technical **software specifications** to ahead of all projects.
- Leveraged **Figma** to design intuitive **UI/UX prototypes** to guide and streamline front-end development.
- Implemented structured **Git/GitHub workflow** to track development iterations throughout development life cycle.
- Designed and Managed all project databases (**SQL/PostgreSQL)** to optimize storage of student data prior to backend.
- Converted **UI/UX prototypes** from Figma into **SEO-Optimized HTML and CSS** for enhanced performance and market visibility.
- Integrated **Bootstrap** to ensure seamless responsive design across all device breakpoints.
- Developed robust and scalable **Python/Django REST APIs** to seamlessly handle **User Data ETL processes.**
- Ensured code quality through comprehensive debugging and automated testing using **Unittest, Pytest and Github Actions.**
- Integrated **Google Search Console** to enhance site visibility, as well as **Google Analytics** for in-depth analysis.
- Documented all dependencies ahead of deployment to ensure accurate project documentation.
- Oversaw migration and deployment **CI/CD pipelines** for production release on **Vercel & Firebase**

PROJECTS

XSTREAMER MUSIC, Artist Performance Insights Algorithm

Developed a **proprietary** data-driven algorithm to retrieve, analyze, and manage music and video streaming performance data of musical artists across various platforms. The algorithm integrated advanced data processing and database management, to provide highly accurate insights. This data was then served to a proprietary analytics dashboard over a scalable, web-optimized API, designed for seamless integration with applications and third-party analytics platforms.

- Curated comprehensive algorithm specifications, complete with graphical data visualization using **Power BI.**
- Leveraged **Python** and **Pandas** for advanced statistical analysis and trend forecasting.
- Developed a complex data-driven algorithm using **Python**, **JSON** and **HTTPS**
- Developed a scalable **REST API** with **Django, JQuery** to serve insights to a **React** front end.
- Designed, implemented and maintained a robust **PostgreSQL** Database architecture for efficient data storage and retrieval of Big Data.
- Leveraged **Figma** to design cohesive and intuitive **UI/UX Designs** for the **Data Analytics Dashboard**.
- Developed a modern, responsive insights dashboard using **HTML**, **CSS**, **JavaScript**, **Bootstrap**, and **React**
- Oversaw the Debugging and Testing of code ahead of deployment, utilizing built-in libraries such as **PyTest** and **unittest**.

TECHNICAL SKILLS

- Python, Django, Flask, JavaScript, React.js, Node.js, JQuery, SQL, PostgreSQL, MongoDB, HTML, CSS, Bootstrap, HTTP, Networking, OAuth, Wordpress, Git, Github, CI/CD Pipelines, Database Management, Google Suite, Microsoft Office, Microsoft Teams, JIRA, Unit Testing, SEO, Agile Development, DevOps,

SOFT SKILLS

- Problem Solving, Innovative Thinking, Attention to Detail, Analytical Thinking, Adaptability, Interpersonal Skills, Written & Verbal Communication, Eager to learn, Conducive to mentorship, Collaboration, Accountability

EDUCATION

CERT. SOFTWARE ENGINEERING • HyperionDev   2024

CERTIFICATIONS

GITHUB FOUNDATIONS • GitHub   2025

ACHIEVEMENTS

BRONZE CERTIFICATE - STANDARD BANK COMPUTER OLYMPIAD   2017
TOP 25 - National Mathematics Olympiad   2017