Fred Banda
Senior Ruby on Rails Developer
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Senior Ruby on Rails Developer with 10+ years of experience specializing in full-stack web development. Expert in building high-performance applications using Ruby on Rails, JavaScript, and modern front-end frameworks. Proven track record of optimizing application performance, implementing test-driven development practices, and delivering scalable solutions with experience in cloud services (SaaS, PaaS, IaaS) and MVC architecture.

Work Experience

Principal Software Engineer / Developer.   **The First Pitch Group**   **Sep 2013–Present**

- Developed and optimized core application features using Ruby on Rails, improving performance by 35 % and reducing load time by 11 seconds from 13 seconds to 2 seconds.
- Built and enhanced front-end interfaces with JavaScript, Stimulus, Tailwind CSS, Hotwire, Turbo, and jQuery, leading to a 29 % improvement in user experience by making the UI more interactive.
- Designed and maintained the back-end using Ruby, Active Record, and Object-Relational Mapping (ORM), ensuring seamless data transactions for additional 55% of concurrent users.
- Identified, tracked, and resolved software issues using Bugzilla, reducing bug resolution time by 22%.
- Structured and optimized the database schema for the application in MongoDB, creating tables, views, and stored procedures that improved query efficiency by 33% improving user retention by 33%.
- Implemented version control and streamlined collaboration using Git, GitHub, and AWS EC2, reducing deployment time on Heroku by 33 minutes.
- Led Agile/Scrum meetings and actively participated in client interactions, contributing to 32 successful feature rollouts for one of e-commerce client.
- and sustained automated test cases with RSpec and Cucumber, achieving 39% test coverage and reducing bugs by 35%, which greatly improved the quality and value of our client's legacy code.
- Conducted and optimized Unit Testing, Integration Testing, and Web Application Testing using RSpec, Capybara, Cucumber, Minitests, and Guard, ensuring 41% reduction in critical defects.
- Enhanced search functionality in a school management application using ElasticSearch, cutting down user search time by 22 seconds.
- Optimized database performance through normalization and de-normalization techniques, reducing query execution time by 33%.

Internal Sales Representative   **Sanlic Bidvest Group** | Jan 2006 - Dec 2013

- Created lead funnels to improve conversion rates for the sales team
- Provided timely and comprehensive solutions to customer problems
- Managed the customer onboarding process
- *During this role, took time to develop programming skills through self-study and internal projects, which led to my transition to software development*

TECHNICAL SKILLS:

- **Languages**: Ruby, JavaScript, Python, Java, SQL, Bash, C#, PHP, YAML
- **Frameworks:** Ruby on Rails, React, Angular, Vue.js, ASP.NET, Next.js, jQuery, Stimulus, Hotwire Turbo
- **Databases:** MongoDB, MySQL, PostgreSQL, MS SQL Server, DynamoDB
- **Testing:** RSpec, Capybara, Minitest, Guard, Cucumber, Mocha, Selenium, Playwright
- **Deployment**: Git, Jenkins, AWS CodeDeploy, Docker, Kubernetes, Ansible, Heroku, Terraform, CI/CD
- **Front-end:** HTML5, CSS3, AJAX, Tailwind CSS
- **Methodologies**: Agile, Scrum, Waterfall, Kanban, DevOps, TDD, BDD
- **Operating Systems**: Linux, Unix, Windows, macOS

Education and Certifications

Bachelor of Business Admin
University of South Africa
Cape Town, W. Cape, South Africa
2011 to 2014
Certificate in Digital Marketing
Google Garage
Cape Town, W. Cape, South Africa
2020 to 2020
Certificate in Business Analysis

Projects

- **Personal Portfolio**
- Built with Next.js 13, Framer Motion, and React.
- **Check Invoice Management**
- Developed with ruby on the backend and React on frontend. Serialized APIs . Record checks using your webcam. Active storage
- **CRUD Social Media Web App**
- Built with Ruby on Rails and integrated with third-party APIs.
- **API Consumer App**
- Developed a YouTube API consumer app for seamless content retrieval.
- **Web3 & Vue.js Project**
- Built a decentralized app with Vue.js and blockchain integration.
- **Repair Shop Ticketing System**
- Developed a ticketing system with employee logins and role-based access.

Additional Information

- Passionate about continuous learning and staying ahead of the latest web development trends
  - Detail-oriented and committed to delivering high-quality code on schedule.
  - Fluent in English (C2 Level).
- 🚀 Seeking Ruby on Rails roles where my expertise can be leveraged to build impactful web applications. Let's connect.