Ntshuxeko Confidence Mathebula

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SOFTWARE DEVELOPER

A meticulous Software Developer with over 2 years of experience in analytics and almost 2 years of experience designing, developing, and deploying high-quality software solutions. Proficient in MATLAB, Python, HTML, CSS, JavaScript, SQL and experienced in full-stack development, application development, data analytics, automation, and software integration. Known for strong problem-solving abilities and collaborating effectively in agile environments. Eager to tackle new challenges and continuously expand technical expertise.

PROFESSIONAL EXPERIENCE

Freelance Web Application Developer
JOBVINE | Feb 2024 – Present

- Built and deployed a fully responsive Google Gemini website clone with Modern UI/UX in React.js with Tailwind CSS.
- Built and deployed a headphone company landing page using Tailwind CSS, Framer Motion and React.
- Built and deployed a real estate landing page using React and Framer Motion.
- Built and deployed an AI image generator web application using OpenAI, Node Express, Tailwind CSS and React.

Junior Consultant – Software Engineering
Opti-Num Solutions (Pty) Ltd | Aug 2023 – Present

- Developed and deployed applications to MATLAB Web App Server, streamlining user access and improving operational efficiency.
- Designed and implemented actual and projected revenue calculations models and utility classes in MATLAB.
- Designed and implemented an automatic dashboard generation class in Python.
- Developed API's using the Flask-RESTful framework to enhance integration and optimise data conversion processes.
- Applied OOP principles to designed models, improving calculation efficiency and data processing.
- Refactored code to enhance system performance in code steps like data processing or computations.
- Conducted comprehensive testing, achieving 94% + code coverage to ensure robust software functionality.
- Improved forecasting accuracy by enhancing predictive models for a major SA housing company.
- Automated report generation for a major mining and manufacturing supplier in SA by streamlining data processing and manipulation processes.
- Contributed to client acquisition by preparing proposals and demos.
- Led technical support team in providing support to customer through regular check-ins, delegations, and assignments.

Graduate Engineer
Opti-Num Solutions (Pty) Ltd | Feb 2023 – Jul 2023

- Deployed applications using Docker, improving the efficiency of development and operations.
- Managed version control and collaboration using Git, GitLab and SourceTree.
- Developed and integrated API's using Flask, enabling efficient data management, and pulling.
- Built a Proof-Of-Concept WhatsApp chatbot using Python and Meta API's, automating real-time customer responses, and enhancing user interaction.
- Analysed and presented insights from telecommunications company plan customer performance data using MATLAB, driving actionable business improvements.
- Delivered weekly and monthly reports to stakeholders, highlighting key findings and performance trends.
- Provided technical support for MathWorks tools, helping clients optimize workflows, navigate software and its tools as well as debug their code.
- Enhanced skills in Test-Driven Development (TDD), OOP and agile methodologies through intensive workshops.

BI Graduate
Fraser Alexander (Pty) Ltd | Sep 2022 – Jan 2023

- Designed and deployed a production app using MS Power Apps, improving operational efficiency.
- Re-engineered business processes, driving productivity and profitability improvements.
- Performed data analysis to identify inefficiencies, reducing risks and optimizing performance.
- Developed and maintained dashboards, enabling data-driven decision-making for production output and business performance.

EDUCATION

Bachelor of Science (Honors) in Engineering - Metallurgy and Materials
University of the Witwatersrand | 2021

- Majors: Mathematics, I and II, Applied Mathematics Topics, Metallurgical Design I and II, Research Project, Thermodynamics, Hydrometallurgy and Non-Ferrous Pyrometallurgy

SKILLS

- Programming Languages: Python, MATLAB, SQL, HTML, CSS, JavaScript
- Libraries: React.js, Three.js, GSAP
- Databases and Data Management: Microsoft SQL Server (MSSQL), SQL Server Management Studio (SSMS), SQL Server Reporting Services (SSRS), SQL Server integration Services (SSIS), SQL Server Analysis Services (SSAS)

- Frameworks: Flask, RESTX, Flask-RESTful, Next.js, Tailwind CSS
- IDE's: Visual Studio Code
- Version Control: Git, GitLab, GitHub
- Deployment Tools: Docker, MATLAB Web App Server
- Software Engineering Best Practices
- Methodologies: Test-Driven Development (TDD), Object-Oriented Programming (OOP), Agile Development
- Software Architecture and Design Patterns: Model-View-Controller (MVC)
- Performance Optimization: Code profiling
- Testing: Script-based, class-based, and function-based testing
- Application development
- Data visualization and reporting
- Code refactoring and debugging.
- Problem-Solving and Analytical Thinking
- Teamwork, collaboration, and communication
- Process Improvement and optimization.
- Business analysis and risk identification

CERTIFICATIONS

- Online Masterclass: Presentation Skills | GIBS Business School (Gordon Institute of Business Science) | 2024.
- Deep Learning Onramp | MathWorks | 2023.
- Machine Learning with MATLAB | MathWorks | 2023.
- Object-Oriented Programming | MathWorks | 2023.
- Machine Learning Onramp | MathWorks | 2023.
- Crash Course on Python | Coursera | 2022.
- MATLAB Onramp | MathWorks | 2022.
- Python Project for Data Science | Coursera | 2022.
- Statistics for Data Science with Python | Coursera | 2022.
- Python for Data Science, AI | Coursera | 2022.
- Tools for Data Science | Coursera | 2022.

REFEREES

Available upon request.