Itumeleng Malemela

SOFTWARE DEVELOPER

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Summary

Software Engineer with expertise in software development, microservices architecture, API integration, and deployment. Experienced in functional, integration, and user acceptance testing to ensure high-quality and reliable software systems. A collaborative team player with strong problem-solving abilities, capable of efficiently resolving project challenges. Demonstrates a solid programming background and a deep understanding of software development principles, applied across multiple projects. Skilled in deploying and maintaining scalable applications using modern DevOps tools and methodologies.

Skill Highlights

- Agile/Scrum methodology
- User experience
- Software Development
- Software Testing
- Microservices and API integration

- JavaScript, Java, Python, Julia, C, C++, MATLAB, Linux.
- PostgreSQL, BackBone.JS, Node.JS, React J.S
- Docker, Ansible

Education

Master of Science: **MSc Eng Electrical and Computer Engineering – (Ongoing), University of Cape Town**
Bachelor of Science: **BSc Eng Electrical and Computer Engineering – 2020, University of Cape Town**

Recent professional experience

Software Engineer - 03/2021 – Present
Council for Scientific and Industrial Research (CSIR) NGEI, Software Architecture and Solutions, South Africa

- Designing and developing software solutions with a focus on meeting client requirements.
- Creating comprehensive test documentation for User Acceptance Testing during software releases.
- Ensure high-quality software through functional testing, UI testing and integration testing.
- Front-end development using Backbone.JS, React.JS and Backend development using NODE JS.
- Implement and optimize testing pipelines using Docker for microservices-based applications.
- Contribution to three major Projects (Electronic Vaccination Data System (EVDS), Health-Patient Record System (HPRS), and Electronic Medical Records (EMR))

Contractor (Vacation-work) - 12/2020 to 01/2021 [2 Months]
Council for Scientific and Industrial Research (CSIR) Smart Mobility, South Africa

- Software design and development of software for Smart Truck Pilot project for providing information and analyzing Smart Trucks Data to aid in designing policies for Performance Based Standards for Trucks
- Using Python Django Framework and Postgresql Database.

Contractor (Vacation-work)- 12/2018 to 01/2019 [2 Months]
Council for Scientific and Industrial Research (CSIR) NGEI, South Africa

- Software design and development of a Peer Review System that enables employees to review their team members to encourage growth and valuable feedback within teams.
- Using React JS, NODE JS and Postgresql Database.