Karabo Sithole

Software Developer

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Johannesburg, Gauteng, 2090, South Africa

Results-driven Software Engineer with experience in full-stack development and DevOps. My tech journey began with a Tamagotchi, sparking my passion for problem-solving. Skilled in cloud computing, automated deployment, and scalable e-commerce solutions, focusing on user-centered applications and robust CI/CD practices.

Work Experience

Junior Software Developer Intern
Jan 2024 - Present

Tshedimosego Career and Wellness Centre (NPO)

Web Developer & Operations Support

- Automated donation tracking using Python, reducing manual errors by 40%.
- Migrated the organization's files to cloud storage (Google Drive/Dropbox) for better accessibility.
- Developed and maintained a website to enhance the center's online presence and streamline service requests.
- Trained team members on collaboration tools like Trello and Slack to improve internal communication.

Founder
Jan 2020 - Dec 2023

Vamped Ateliers

- Launched and managed an e-commerce platform, handling product listings, inventory, and customer experience via Shopify.
- Built and maintained online sales channels, managing marketing, customer support, and order fulfillment.
- Developed technical skills by integrating cloud-based solutions to improve operations and efficiency.
- Gained insights into consumer behavior, trends, and UI design through hands-on website management.
- Applied problem-solving skills to ensure smooth operations, from customer inquiries to stock management.
- Personal Project Link: Managing Vamped Ateliers inspired me to expand my technical skills, leading to TryBeforeYouBuy. This experience sparked my passion for backend systems, automation, and user experience, paving the way for my transition into software development.

Projects

Individual Project: Try Before You Buy Application
Present

Virtual try-on app helping users visualize clothing fit using body measurements. Used Unity 3D for simulations, Node.js for the backend, and PostgreSQL for data storage. Integrated features like avatars, a

Core Skills

Java, Python, JavaScript, C++, SQL, HTML, CSS, C, Web Frameworks : React.js, Angular, Vue.js,
Cloud Technologies & DevOps : Docker, GitHub Actions, CI/CD,
Cloud Computing (IBM Certified),
Development Tools : IntelliJ IDEA, VS Code, Git, Testing & Methodologies : TDD, Agile, Unit Testing, BDD, Scrum,
Design Expertise : OOP, Functional Programming,
API Development : RESTful APIs, API Integration,
Problem-Solving : Debugging, System Analysis, Solution Design,
Development Practices : Version Control, Team Collaboration, Documentation, Quality Assurance,
Basic Programming Skills,
Strong Debugging Skills,
Complex Problem Breakdown,
Independent Work, Mentorship Experience,
Strong problem-solving and analytical abilities,
Excellent team collaboration skills,
Self-motivated learner with ability to work independently,
Experience with project documentation and technical writing,
Commitment to continuous learning and professional development,
articulate, problem solving, innovative,
distributed systems, computer science,
algorithms, distributed computing,
computer engineering,
amazon web services, distributed storage,
algorithm design, data structures,

clothing catalog, and AR capabilities, with CI/CD through GitHub Actions and deployment via AWS.

Airtime & Data Management App
Present

Led the development of an app for checking airtime/data balances, top-up services, and managing favorites. Implemented security features like encryption and two-factor authentication. Managed the project using GitHub and Miro for planning. Oversaw design, development, testing, deployment, and ongoing maintenance.

Volunteer Experience

Bootcamp Assistant
Jun 2024 - Sep 2024

WethinkCode

Assisted instructors and students by organizing resources and managing schedules. Set up and troubleshot technical environments, including software installations and shared repositories.
Improved logistics by implementing automation tools, reducing manual tasks by 30%.

References

Itumeleng Mogari

Founder
Tshedimosego Career and Wellness Centre (NPO)
Phone: +27 (71) 680-3955

Nqobile Mthombeni

Technical mentor Manager
phone: +27 (68) 191-2904

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data mining, syntax, object-oriented design, c/c++, inventive

Education

WeThinkCode_
Sep 2023 - Dec 2024

Certificate Software Development

University of Pretoria
Jan 2016 - Dec 2018

BSC Mathematics science

Languages

English *(Native speaker)*

Certificates

SQL and Relational Databases 101
IBM

Cloud Computing Fundamentals
IBM

Artificial Intelligence Fundamentals
IBM

Interests

Marathon running to raise awareness for cancer research., Creating oil paintings to express creativity and detail., Reading non-fiction books, especially those based on real-life stories and events.