KARABELO NTHOROANE

TECHNICAL SOLUTIONS ENGINEER

CONTACT

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COMPETENCIES

Software Development

Database Management

Networking

DevOps

Operating Systems

Version Control Systems

EDUCATION

Information Technology and Computer Science

Motheo TVET College

2020 - 2022

Included a diverse curriculum covering networking fundamentals, software development, and Cisco courses.

CS50x

HarvardX

2022 - 2023

Covered key concepts such as algorithms, data structures, software engineering principles, and web development.

LANGUAGES

Python

Java

SQL

PROFILE

I am a hardworking and motivated individual who thrives on collaborating with others. Honesty and dedication define my approach to tasks, and I consistently strive for excellence in all endeavors, valuing punctuality as a cornerstone of my work ethic. I am passionate about developing technologies that positively impact users, eagerly building projects and staying abreast of the latest technological developments. Engaging with like-minded individuals energizes me as I continue to expand my skills and experience, particularly in the media and gaming space, where I aim to make a meaningful contribution and foster positive change.

WORK EXPERIENCE

Software Engineer

Digistrads — 2022 - Current

- **Web Development:** Created responsive websites utilizing HTML, CSS, and JavaScript to optimize user experience and interaction.
- **E-commerce Development:** Applied expertise in building e-commerce solutions, integrating functionalities such as shopping carts, payment gateways, and inventory management systems.
- **Database Management:** Proficient in SQL and database management, adeptly designing, querying, and optimizing databases.
- **Django Expertise:** Implemented Django frameworks proficiently to develop robust backend systems and intricate web applications.
- **Cross-Platform App Development:** Developed versatile applications across multiple platforms, leveraging Angular and Firebase technologies.
- **GitHub Proficiency:** Managed version control effectively through Git and GitHub, facilitating seamless collaboration and code management.
- **Effective Communication:** Established clear channels of communication with clients and team members to ensure project alignment and success.
- **Project Management Skills**: Orchestrated projects efficiently, ensuring timely delivery and client satisfaction through meticulous planning and execution.

Freelancer

Self Employed — 2015 - 2022

- **Versatility**: Adaptability to handle a wide range of tasks and projects, showcasing flexibility and diverse skill sets.
- **Hardware Installations:** Expertise in installing and configuring computer systems, peripherals, and network devices.
- **Client Communication:** Effective communication skills to understand and meet client requirements, clarify expectations, and provide regular updates.
- **Time Management:** Experience in managing multiple projects simultaneously, prioritizing tasks, and meeting deadlines effectively.
- **Customer Service:** Providing excellent customer service by addressing client inquiries, concerns, and feedback promptly and professionally.
- **Self-Motivation:** Demonstrated self-motivation and initiative in pursuing freelance opportunities, managing workload, and continuously improving.
- **Testing and Debugging:** Ability to test and debug software applications to ensure functionality and identify and resolve issues.
- **Continuous Learning:** Commitment to ongoing learning and professional development to stay updated with evolving technologies and industry trends.

KEY COURSE MODULES

CS50x

- **Algorithms and Data Structures**
  - Design & Implementation of searching and sorting algorithms
- **Software Engineering Principles**
  - **V**ersion control, GitHub and Debugging
- **Web Development**
  - HTML, CSS, and JavaScript
- **Backend Development**
  - Python and Django
- **Database Management**
  - SQL
  - NoSQL
- **Final Project:** Developed a Python-based "Photo Booth" application utilizing OpenCV for facial detection and image capture functionality. The application employs real-time facial recognition algorithms to detect faces and trigger the camera shutter upon detection of a gesture, allowing for seamless and intuitive photo capture experiences.

Cisco Networking Academy

- **Cisco IT Essentials**
  - Hardware and Software Fundamentals
  - Troubleshooting Techniques
  - Computer Assembly and Disassembly
  - Operating System Installation and Configuration
- **Introduction to Cybersecurity**
  - Security Principles and Concepts
  - Common Cybersecurity Threats and Attacks
  - Risk Management Strategies
  - Cryptography Basics
- **Introduction to Networking (CCNA1)**
  - Networking Fundamentals
  - OSI Model and TCP/IP Protocol Suite
  - IP Addressing and Subnetting
  - Router and Switch Configuration Basics
- **Programming Essential in Python**
  - Python Syntax
  - Data Structures
  - Object-Orientated Programming

Sol Plaatje University

- **NQF Level 5**
  - Applications Development Foundations
  - ICT Fundamentals
  - Web Development I
  - Communication Networks Foundations
  - Information Systems I
  - Programming I