


# NHLAYISEKO VHUMA

## CONTACT

+27 64 739 5070

nhlayisekobvuma7@gmail.com

 <https://github.com/Nvhuma>

 <https://portfolioseko.netlify.app/>

## ABOUT ME

A recent graduate with a Bachelor in Information Technology and Business analysis, I am eager to apply my academic knowledge and strong communication and teamwork skills to contribute meaningfully to the IT industry. I enjoy collaborating with teams and have a passion for solving problems, I have a strong passion for backend development.

## EDUCATION

### GWAMBENI HIGH SCHOOL

- Grade 12 (NSC)

### ROSEBANK COLLAGE

- Bachelor of Technology: Information Technology
- AWS Cloud Practitioner
- Validation Number: DZ0NGL2DENV11ZC5
- AWS Solutions Architect – Associates
- Validation Number: JV7L823BMJ1E1955

## EXPERTISE

- React
- JavaScript
- TypeScript
- HTML
- CSS
- React
- ASP.NET8
- SQL
- C#
- Python
- PHP
- PowerShell, Bash
- Linux, Containers (Docker/Kubernetes)
- Splunk, Azure Monitor, Azure Log Analytics
- Ansible, Terraform

## PROJECTS

- Torque IT 2019
- LPI Linux Essentials
- LPIC-1 Linux Administrator
- LPI ID: LPI000427185

February 2023 - Present

- Product management solution (movie express)

- > Protected routes for SuperUser and User
- > SuperUser has access to Product management page
- > User had access to the product page and checkout mechanism
- > Wallet functionality for normal user
- > working with C# libraries
- > Developed a dynamic product management system to track inventory and pricing
- > Ensured seamless user experience with accurate product dynamic
- > Implemented real-time stock updates in both the application and SQL database

- Singular Product API
  - > Working with a third party API
  - > HttpClient in a .Net Application
  - > Working with dynamic data
  - > Swagger for API documentation
- Image Gallery App (C# .NET AND REACT)
  - > Two factor Authentication
  - > Rest API endpoints
  - > Cloudinary Integration for images
  - > TOTP (Time-based One-Time Password)
  - > Authentication and Authorization (JWT)
  - > CRUD Operations
- Vehicle Booking App
  - > Seeding data in .Net 8
  - > Implemented seed data for Vehicle mods, Service Typing and Prices
  - > Environment Management (.env files)
  - > Email Services
- Front-end Development: HTML, CSS, JavaScript, React, TypeScript, Tailwind CSS, Bootstrap
- Back-end Development: Node.js, ASP.NET Core, .NET 8, RESTful APIs, PHP, Python
- Database Management: MySQL, PostgreSQL, SQL Server, MongoDB
- Version Control & Tools: Git, GitHub, Visual Studio Code, Postman, Docker
- Cloud & APIs: Cloudinary, Firebase, Third-party API Integration
- Testing & Optimization: Debugging, Performance Tuning, Cross-Browser Compatibility

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## WORK EXPERIENCE

February 2024 - Present

- Junior Software Development

Singular Systems | 25 Scott Wavely

- Designed and developed responsive web applications using HTML, CSS, JavaScript, and React.
- Built and maintained RESTful APIs using .NET 8 and integrated them with front-end applications.
- Optimized web applications for speed, performance, and scalability.
- Ensured cross-browser compatibility and accessibility compliance.
- Utilized Git for version control and collaborated in Agile development teams

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- E-Commerce Platform (React & .NET 8)
  - Developed a full-stack e-commerce application with user authentication.
  - Designed a responsive UI using React, Tailwind CSS, and Bootstrap.
  - Implemented product filtering, search, and checkout functionality.

## DATABASE EXPERIENCE

- Working with Databases in .NET8
- Using Entity Framework for database interactions.
- Managing relationships between entities (e.g., images, tags, and comments).
- Performing CRUD operations in the API.
- Performing data migration in .Net8

## DATA SCIENCE AND ML

- A simple image recognition project using TensorFlow and Keras with the MNIST dataset
- Data processing and model building, training with the MNIST dataset consisting of 28x28 greyscale images of handwritten digits
- Git hub repository: <https://github.com/Nvhuma/Image-Detection-using-AI>
- Tech stack includes Python 3.6 , TensorFlow , Numpy and Matplotlib

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## DATA SCIENCE AND ML

- Python extension with common data science libraries to explore basic data science scenarios
- Using the data from the titanic to set up a data science virtual environment
- Git hub repository: <https://github.com/Nvhuma/Data-science-is-VS-code->
- Import and clean data
- Created a machine learning model to predict the survival on the titanic

## CYBER SECURITY INTERN

- Automated system deployment and configuration using Ansible to reduce manual overhead by 30%.
- Built and maintained CI/CD pipelines using Azure DevOps, ensuring seamless build, test, and deployment workflows.
- Monitored system availability using Azure Monitor and Splunk, enabling proactive issue resolution.
- Designed and developed scripts in Python and PowerShell for system automation and data ingestion.
- Integrated REST APIs for efficient data collection and ingestion into analytics platforms.

## SYSTEM ADMINISTRATOR INTERN

- Administrator Intern  
| SETA | 6 months

- Managed Linux-based servers, ensuring optimal system performance and uptime.
- Deployed and monitored containerized applications using Docker.
- Analyzed system logs and implemented solutions to improve operational efficiency.