

# Curriculum Vitae



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-----ONLINE RESUME-----

<https://benedictmzizi.github.io/OnlineResume>

CONTENTS

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Career Objective ..... 2

Education ..... 2

Certifications ..... 2

Technical Skills ..... 3

Projects..... 4

Experience ..... 8

Soft Skills..... 8

Strengths..... 8

References..... 8

## CAREER OBJECTIVE

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Motivated and technically skilled IT graduate with a strong foundation in software development, cloud computing, networking, cybersecurity, automation, and artificial intelligence. Adept at building full-stack applications, automating workflows, integrating APIs, and implementing scalable solutions using modern development tools and platforms. Passionate about solving real-world problems through innovation, clean code, and cross-functional collaboration. Seeking to contribute to a dynamic, tech-driven environment where I can apply my diverse skill set, contribute to meaningful projects, and continuously grow professionally

## EDUCATION

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### **North-West University – Vaal Triangle Campus**

Bachelor of Science in Information Technology — Completed

### **Springs Boys High School**

Matric — Completed

## CERTIFICATIONS

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- AWS Cloud Practitioner Essentials(Coursera)
- AWS Cloud Technical Essentials(Coursera)
- Introduction to DevOps by IBM(Coursera)
- Introduction to Data Science – Cisco Networking Academy (via IBM SkillsBuild)
- Introduction to Modern AI – Cisco Networking Academy (via IBM SkillsBuild)
- AI Fundamentals – Cisco Networking Academy (via IBM SkillsBuild)
- Python Essentials 1, 2 – Cisco Networking Academy (With Python Institute)
- Introduction to Cybersecurity – Cisco Networking Academy
- Dante Level 1, 2, 3 – Dante
- Savant Core Certification – Savant Labs

## TECHNICAL SKILLS

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**Programming Languages:** Python, Java, C#, C/C++, JavaScript (ES6+), HTML/CSS, PHP, HTML5/CSS3, PHP, SQL (MySQL, PostgreSQL)

**Frontend Technologies:** React (Hooks, State Management), Bootstrap, Angular (Basics), jQuery, Responsive Design, DOM Manipulation, Tailwind CSS

**Backend & APIs:** Node.js, Express.js, RESTful API Design, ADO.NET, Entity Framework, Django (Basics), API Authentication (OAuth2, API Keys)

**Frameworks & Tools:** Django, ASP.NET MVC, Bootstrap, Angular, jQuery, RESTful APIs, React (Hooks, State Management), Node.js, ADO.NET, Entity Framework

**Databases:** MySQL, Microsoft SQL Server, Oracle SQL, MongoDB (basic), Supabase (PostgreSQL BaaS)

**Cloud & DevOps:** AWS EC2, S3, RDS, Nginx, PM2, GitHub Actions, CI/CD, Shell Scripting, Postman, Continuous Deployment (Netlify), API Authentication (OAuth, API Keys), Shell Scripting, Docker (Basic), Postman, Render, AWS (Foundations)

**Networking & Cybersecurity:** Cisco Packet Tracer, Secure Coding, OWASP Top 10, Network and security configuration, Subnetting, Firewall Configuration, Network Troubleshooting

**AI & Data Science:** Neural Networks, ML Basics, IBM Watson, Data Visualization

**Automation:** Google Apps Script, Zapier, Mailjet, Google Workspace Automation, Workflow Automation, Webhooks, Workflow Orchestration

**Operating Systems:** Windows, Linux, macOS

**Other Tools:** Docker (basic), Visual Studio, Arduino, VMware, VirtualBox, Jira, Trello, VS Code, AWS Management Console and CLI, Figma, Responsive Design, Deployment, Linux CLI

## PROJECTS

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### JungleShop

Tech Stack: React, Node.js, Express.js, MySQL (AWS RDS), AWS EC2, S3, Stripe, Nginx, PM2, GitHub Actions, Tailwind CSS, JWT

Developed and deployed a scalable full-stack e-commerce platform with secure admin functionality and payment integration

- Built a responsive frontend with React and Tailwind CSS featuring dynamic product browsing, search, cart, and checkout..
- Created a secure backend using Node.js and Express, with admin-protected product CRUD routes.
- Managed state and dynamic cart interactions using React Context API
- Integrated MySQL (AWS RDS) for relational product and order data
- . Configured AWS S3 for secure image uploads and static file hosting.
- Deployed backend on AWS EC2 with PM2 process manager, SSL via Let's Encrypt, and Nginx reverse proxy.
- Used GitHub Actions for CI/CD automation and tested APIs with Postman.

**GitHub Repo:** [github.com/BenedictMzizi/jungleShop](https://github.com/BenedictMzizi/jungleShop)

**Backend API:** <https://13-61-48-159.sslip.io/api>

**Live Demo:** <http://jungleshop-frontend.s3-website.eu-north-1.amazonaws.com>

### Registration Automation

Tech Stack: Google Apps Script, Google Sheets/Forms, Mailjet, Zapier

- Automated student registration workflows with dynamic email confirmations.
- Integrated Zapier for error handling and process logic.

**GitHub Repo:** <https://www.github.com/BenedictMzizi/RegistrationAutomation>

**Live Demo:** <https://benedictmzizi.github.io/RegistrationAutomation>

## **Team Registration App**

**Tech Stack:** React (CRA), Supabase (DB/Auth), Vercel, Git, Responsive Web Design

Built a full-stack registration portal that allows users to register for team participation while providing admins with secure login and approval access.

- Developed using Create React App with Supabase as the backend for database storage and authentication.
- Implemented conditional rendering to separate user and admin views dynamically.
- Designed a clean and responsive interface for both registration and admin login dashboards.
- Integrated Supabase Auth for admin login and Supabase DB for storing pending registrations.
- Deployed live on Vercel with continuous integration via GitHub.
- Structured the app for easy future expansion such as approval workflows and email notifications.

**GitHub Repo:** <https://github.com/BenedictMzizi/TeamRegistrationApp>

**Live Demo:** <https://team-registration-app.vercel.app>

## **Clinic Documentation Digitization**

**Tech Stack:** C#, WinForms, .NET Framework, Microsoft SQL Server

Built a desktop app for digitizing clinic patient records.

- Designed user-friendly forms for efficient data entry and retrieval.
- Created modular features for file management and database future-proofing.
- Built and maintained the system architecture with Visual Studio.

**GitHub Repo:** <https://www.github.com/BenedictMzizi/BFT-solutions>

## **Flag Explorer App**

**Tech Stack:** React, Express.js, Node.js, Vercel, Render, REST API, GitHub Actions

Built A full-stack web application that displays country flags and basic country details using a custom-built REST API.

- Developed a React frontend to fetch and render country data dynamically, with a clean Tech grid-based UI.
- Integrated environment variables for seamless API routing between frontend and backend.
- Deployed the backend to Render and the frontend to Vercel, enabling scalable and live production hosting.
- Implemented CI/CD workflows with GitHub Actions to trigger automatic deployments on code changes.
- Structured project using a clean monorepo layout with separate client and backend root directories for easier deployment and collaboration.

**GitHub Repo:** <https://github.com/BenedictMzizi/FlagExplorerApp>

**Backend API:** <https://flagexplorerapp.onrender.com/countries>

**Live Demo:** <https://flag-explorer-app.vercel.app>

## **Autonomous Line-Following Robot**

**Tech Stack:** C++, Arduino, DRV8835 Motor Shield, NewPing, LDR Sensors Built an autonomous robot that follows a line and avoids obstacles using ultrasonic sonar.

- Coded multi-sensor logic for forward motion, left/right turns, and black tape-based stopping behavior.
- Tuned motor control and threshold logic for accurate real-time performance.

**GitHub Repo:** <https://www.github.com/BenedictMzizi/Autonomous-Line-Following-Robot>

## **Online Resume Website**

**Tech Stack:** HTML, CSS, JavaScript, GitHub Pages, Git, Responsive Web Design

Built a digital resume website to showcase my professional background, technical skills, certifications, projects, and downloadable documents.

- Designed and developed a responsive, single-page personal resume site using HTML, CSS, and JavaScript with a clean and accessible layout.
- Embedded downloadable resume documents and certificates using a public documents/ directory structure.
- Integrated links to project repositories, certifications, and contact information to streamline application processes.
- Deployed the site live using GitHub Pages, ensuring easy public access across devices and browsers.
- Structured the project for scalability and simplicity, with clear separation of content and presentation logic.

**GitHub Repo:** <https://github.com/BenedictMzizi/OnlineResume>

**Live Demo:** <https://benedictmzizi.github.io/OnlineResume>

## **Volatility Index Trading Bot**

**Tech Stack:** Python, MetaTrader 5, Deriv DBot (XML), RSI/EMA Indicators

- Developed an automated trading bot using EMA and RSI indicators.
- Backtested and optimized strategy in a real-market environment.

**GitHub Repo:** <https://www.github.com/BenedictMzizi/Robot1000>



## EXPERIENCE

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### **Computer Technician | Software Developer | Installer Assistant (Freelance).**

- Installed, configured, and troubleshoot computer hardware and software
- Automated manual workflows using Google Apps Script and Zapier, reducing human error and boosting operational efficiency in small businesses and university environments.
- Developed and hosted APIs for dynamic content using RESTful design principles, deployed on AWS S3, Render and Vercel.
- Built automation and AI driven prototypes such as a volatility index trading bot(python, meta trader 5) and an autonomous line-following robot (Arduino + C++).
- Installation of home cctv systems

## SOFT SKILLS

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- Analytical Thinking
- Problem Solving & Adaptability
- Technical Documentation
- Team Collaboration
- Attention to Detail

## STRENGTHS

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- Strong analytical and cybersecurity mindset
- Quick to adapt to emerging technologies
- Passionate about automation, AI, development and data-driven solutions

## REFERENCES

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North West University VTC (016 910 3111)

Springs Boys High School (011 818 2175)

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