

# Curriculum Vitae



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

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

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LinkedIn: <https://www.linkedin.com/in/benedict-mzizi>

OnlineResume: <https://benedictmzizi.github.io/OnlineResume> (for detailed updated)

GitHub: <https://github.com/BenedictMzizi>

## PROFESSIONAL SUMMERY

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Dynamic and versatile IT graduate with a strong multidisciplinary foundation spanning software testing, IT support, cloud computing, DevOps practices, full-stack development, automation, and systems implementation. Experienced in delivering end-to-end technical solutions—from troubleshooting hardware and software issues to building production-ready applications, integrating APIs, performing functional and API testing, and deploying cloud-hosted systems.

Skilled in modern development technologies (React, Node.js, SQL), workflow automation (Apps Script, Zapier), and cloud platforms (AWS). Adept at supporting business systems, conducting UAT, managing deployments, building CI/CD pipelines, and ensuring system reliability and user satisfaction. Bringing a solid foundation in networking, Windows environments, cybersecurity fundamentals, and enterprise implementation methodologies. A proactive problem-solver with a broad technical toolkit Well-suited for roles in software testing, systems implementation, cloud support, IT support, or software development

## 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

## CORE TECHNICAL SKILLS

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**IT Support & Technician Skills:** Windows OS support (10/11), Microsoft 365, Device setup & imaging (Laptops/Desktops), drivers installation, macOS & Linux basics, PC/Printer troubleshooting, PC hardware repairs, Network troubleshooting (LAN/WAN/Wi-Fi, DHCP, DNS), Firewall configuration, subnetting, routing basics, Software installation, system cleaning, performance tuning. CCTV installation & cabling basics

**Cloud Engineering & DevOps:** AWS(EC2, S3, RDS, IAM, Security Groups),Linux server management, Nginx reverse proxy, SSL certificates, DNS configuration, Server deployment (Node.js, PM2, Nginx), CI/CD pipelines using GitHub Actions, Docker (basics), containers, images, Shell scripting (Bash), Linux CLI, API Authentication (OAuth, JWT), Netlify, Render & Vercel deployments, Log monitoring, environment variables, secrets management, Load balancing fundamentals

**Systems Implementation & Automation:** Workflow automation (Google Apps Script, Zapier, Mailjet), Google Workspace Automation, Webhooks, API integrations, orchestration flows, System configuration, rollout, deployment support, Requirements documentation & business process mapping, Process optimisation & digital transformation support, Troubleshooting deployment issues

**Software Testing & QA:** Functional UI regression & integration testing, API testing (Postman), Test case creation, test scripts, documentation, Bug reporting, defect tracking, root-cause analysis, UAT support & feedback consolidation, Testing CI/CD pipelines, Test traceability & requirements alignment

**Networking & Cybersecurity:** Cisco Packet Tracer, OWASP Top 10, secure coding practices, Network configuration & troubleshooting, Subnetting, routing, switching fundamentals, Firewall configuration, port rules, IP management, Vulnerability awareness & defensive programming

**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)

**Architecture & Design:** MVC, monorepo structures, modular design, secure coding (OWASP)

**AI & Data Science:** Neural Networks, ML Basics, IBM Watson, Data Visualization, Python for data tasks, Savant

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

**Other Tools & Platforms:** Visual Studio, VS Code, Arduino IDE, VMware, VirtualBox, Git & GitHub (branches, workflows), Jira, Trello (Agile), AWS Management Console & CLI, Figma, GitHub Pages, Netlify, Vercel, Render, Postman, Nginx, PM2

## 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 complete 3-tier production system. For an e-commerce platform with secure admin functionality and Stripe payment integration. Configured AWS services and automated deployment pipelines using GitHub Actions.

- 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.
- Implemented CI/CD pipelines using GitHub Actions, automating builds, tests, and deploys.
- Conducted functional, integration, and API testing using Postman; validated user workflows, checkout processes, and admin logic.
- Deployed Linux servers using AWS EC2, configured Nginx reverse proxy, SSL certificates, environment variables, and PM2 process manager
- Strengthened troubleshooting skills across networks, server logs, and infrastructure failures.

**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>

## **Flag Explorer App**

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

Created a full-stack web app displaying dynamic country data through REST API integration. Automated deployments using GitHub Actions.

- Developed a React frontend to fetch and render country data dynamically, with a clean Tech grid-based UI and the backend to Render and the frontend to Vercel, enabling scalable and live production hosting. Tested both environments for consistency.
- Integrated environment variables for seamless API routing between frontend and backend.
- Performed API testing, endpoint validation, error-state testing, and data accuracy checks.
- 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>

## **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.
- Tested responsiveness, performance, SEO structure, and cross-browser compatibility.
- Automated updates via GitHub workflows for quick deployment.
- Implemented accessible UI and ensured clean structure for maintainability
- 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>



## **Team Registration App**

**Tech Stack:** React (CRA), Supabase (DB/Auth), Vercel, Git.

Built a full-stack registration portal with secure admin access and real-time approval workflows using Supabase Auth and database services. Deployed via Vercel with CI/CD.

- 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 and Designed a clean and responsive interface for both registration and admin login dashboards.
- Led system implementation tasks such as authentication setup, access control, and database initialization and Deployed live on Vercel with continuous integration via GitHub.
- Automated deployment pipelines via Vercel; monitored build logs and resolved deployment conflicts.

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

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

## **Registration Automation**

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

Automated student registration workflows with dynamic email confirmations and error handling logic using Zapier integrations. Integrated external services (Mailjet, Zapier) using webhooks and APIs Zapier for error handling and process logic.

- Designed and tested conditional logic flows, error-handling, retries, and notification triggers.
- Improved business processes through system automation aligned with real-world implementation practices.

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

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

## **Clinic Documentation Digitization**

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

Built a desktop application to digitize clinic patient records and eliminate paper-based workflows.

- Gathered requirements, planned system structure, built UI forms, and implemented CRUD logic.
- Designed user-friendly forms for efficient data entry and retrieval.
- Created modular features for file management and database future-proofing.
- Tested all modules: data entry, search, updates, deletions, and validation rules.
- Built and maintained the system architecture with Visual Studio.

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

## **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.
- Programmed real-time automation logic with tuning, calibration, and testing cycles.
- Completed hardware troubleshooting (wiring, voltage, sensors) and iterative quality verification.
- Strengthened debugging skills through hardware-software interaction testing.

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

## EXPERIENCE

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### **| Dev Ops|Cloud Automation|System Implementation|Testing (Freelance).**

- Automated manual workflows using Google Apps Script and Zapier, reducing human error and boosting operational efficiency in small businesses and university environments.
- Conducted software testing across multiple applications: functional testing, UI validation, API testing (Postman)
- Implemented automation solutions using Google Apps Script, Zapier, and Mailjet — significantly reducing manual processing
- Developed and hosted APIs for dynamic content using RESTful design principles, , Render and Vercel.
- . Designed, built, tested, and deployed full-stack web applications using React, Node.js, SQL, and cloud infrastructure (AWS EC2/S3/RDS)
- Performed deployments via AWS, Vercel, Render, and CI/CD pipelines.

### **IT Support| Installer (Freelance Work) 2021–Now(Freelance)**

- Provided first-line and second-line technical support for desktops, laptops, and peripherals.OS installations, device setup.
- Installed and configured Windows 10/11, Microsoft 365, device drivers, and security tools.
- Performed malware removal, system optimizations, formatting, backups, and OS rebuilds.
- Assisted clients with account setup, email configuration, and application support.
- Diagnosed and fixed networking issues (LAN/WAN, routers, IP conflicts, DNS problems, WiFi stability).
- Repaired laptops/desktops including RAM, HDD/SSD replacements, overheating, and BIOS resets.
- Installation of home cctv systems
- PA system Installation

## **PROFESSIONAL SKILLS**

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- Strong analytical & problem-solving
- Excellent communication & user support
- Ability to translate requirements into technical steps
- Agile mindset & fast learner
- Team Collaboration
- Detail-oriented and quality-driven
- Highly adaptive across technologies

## **ADDITIONAL COMPETENCIES**

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- Cybersecurity fundamentals
- Ability to learn new stacks and tools rapidly
- Strong curiosity for systems, automation, and optimization
- Effective in cross-functional teams