

ANDISWA ASIMBONGE ZULU

Final Year BSc Computer Science Student

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## Technical Skills Summary

### Programming & Development:

Proficient in C++, C#, Java, HTML, CSS, JavaScript, React.js, SQL, Arduino IDE.

### Web Development:

Front-end (HTML, CSS, JavaScript, React.js), back-end integration with SQL, basic server-side logic.

### Networking & Security:

Advanced knowledge of Cisco Networking and Security, CCNA Certified, experience with firewall configuration and VLAN setup.

### Operating Systems:

Understanding of OS concepts including process management, memory allocation, and system architecture.

### Tools & Software:

Microsoft Office Suite (Word, Excel, Access), Figma (UX/UI design), Cisco Packet Tracer, Raspberry Pi.

### AI & IoT:

Basic AI concepts and implementation using Raspberry Pi with sensors.

### UX/UI Design:

Experienced in creating intuitive user interfaces using Figma and front-end technologies.

## Strengths

- Strong interpersonal and communication skills
- Fast and adaptive learner
- Leadership and mentorship experience
- Excellent problem-solving & critical thinking skills
- Effective in both team and independent environments
- Works well under pressure

## Education

### Bachelor of Science in Computer Science

Eduvos, South Africa | Expected Graduation: 2025

- Current Final Year Average: 81%
- First Year Average: 69%
- Second Year Average: 73%

### Relevant Modules:

Data Structures & Algorithms, Information Systems, Object-Oriented Programming (C++, C#), JavaScript, UX/UI, Software Development, Database Management Systems, Calculus, Network & Security, Network Configuration (Cisco), Digital Controllers, IT Project Management, Operating Systems

## Academic Projects

### Final Year Project – Online Consultation Platform (Dokotela Online)

- Developed a web-based platform for a real client, Dokotela Online, an online consultation business.
- Implemented online booking functionality for consultations.
- Technologies: HTML, CSS, JavaScript, React.js, SQL with back-end integration for data handling.
- Focused on responsive design and user experience.

### Smart Environmental Monitoring System

- Built a system using Raspberry Pi and sensors (DHT22, Ultrasonic, LDR) to monitor air quality, temperature, and humidity.
- Created a web interface for real-time remote monitoring.

### SelfMove Car Distance Monitoring System

- Programmed a collision detection and parking assistant system using HC-SR04 sensor, Raspberry Pi, LED, and buzzer feedback.

### Network Security with Cisco ASA Firewall

- Designed and implemented ACLs and NAT in Cisco Packet Tracer.
- Secured internal, external, and DMZ segments for a simulated company network.

### Enterprise Network Simulation

- Designed and simulated VLANs, routing, and switching in a Cisco-based network.
- Evaluated performance and applied security policies.

### Database Optimization Project

- Worked with Oracle, MongoDB, and Neo4j.
- Designed, indexed, and optimized databases for scalability and performance.

## Certifications

- CompTIA A+ Certification – Fundamental IT skills and troubleshooting
- Cisco CCNA Certification – Advanced networking and security concepts

## Experience

### Nomaclouds Consulting – Personal Assistant

Dec 2022 – Jan 2023

- Scheduled and coordinated meetings, managed executive communications.
- Handled documentation and calendar management for executives.

## Awards & Acknowledgements

- Academic Excellence: Top achiever in English and Life Science (Matric year)
- Leadership Recognition: Acknowledged for exceptional leadership in school and church
- Academic Excellence: Golden Key member.

## **Leadership Experience**

- Youth Leader

Covenant Fellowship Church International (2018 – Present)

Mentored youth, coordinated events and educational initiatives.

- Prefect Intern

New Horizon College (Grade 10)

Assisted in school discipline and organizing academic events.

## **Languages**

- Fluent: IsiZulu, English
- Conversational: Afrikaans, SeSotho, SeTswana, SiSwati