

LINDOKUHLE LANGA

Software Development | Cloud Engineering

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PROFESSIONAL PROFILE

Motivated final-year Bachelor of Engineering Technology in Computer Engineering student (graduating April 2026) with strong foundations in Python, JavaScript, automation, and data processing. Experienced in building real-time AI systems, workflow automation, and backend logic for data-driven applications. Passionate about AI-powered development, intelligent automation, data pipelines, and integrating APIs into scalable systems.

Looking to join Conversion Science to build AI-enhanced automation tools, create API-driven workflows, and develop high-impact systems across digital marketing, business operations, and data engineering.

EDUCATION

Cape Peninsula University of Technology (CPUT)

Bachelor of Engineering Technology in Computer Engineering | Expected Graduation: 2026 April

Relevant Coursework:

- AI & Machine Learning – Pattern recognition, computer vision, real-time data processing
- Software Design – SDLC, object-oriented programming, system architecture
- Computer Architecture – Data structures, algorithm optimization, multi-threaded programming
- Cloud Computing – AWS Cloud Practitioner, distributed systems
- Network Systems – Network protocols, system optimization
- Database Systems 3 – Backend development, database integration

TECHNICAL SKILLS

Programming Languages:

- C++, JavaScript, Java (Object-oriented programming, software development) | Python (AI integration, automation, scripting, data processing) | HTML, CSS (Web development fundamentals) | C (Low-level programming, system-level development)

Development Tools & Technologies:

- Software Development Life Cycle (SDLC) – Requirements analysis through deployment
- Multi-threaded architecture and parallel processing
- Real-time systems and performance optimization
- AI/ML Integration – Computer vision, object detection (YOLO)
- Version control and collaborative development
- Linux (Ubuntu) – Development environment, scripting

Cloud & Systems:

- AWS Cloud Practitioner Essentials (2025)
- Network system design and optimization
- Database integration (MySQL)

RELEVANT PROJECTS & EXPERIENCE

Autonomous Drone Navigation System with AI Integration

Industrial Computing Design Project 3 | October 2025

- Integrated YOLO object detection algorithm for pattern recognition achieving 80%+ accuracy
- Built multi-threaded architecture enabling parallel processing of video streams and sensor data

- Implemented real-time data pipeline processing multiple inputs simultaneously
- Designed modular system architecture following software engineering best practices
- **Impact:** Successfully delivered complex software solution meeting strict real-time performance requirements

Software-Defined Network System

Network Systems 3 | September 2025

- Designed and implemented network software using IS-IS, OSPF, and BGP protocols
- Developed system optimization algorithms for traffic routing and data flow
- Created automated performance monitoring and reporting tools
- Applied software development principles to network infrastructure management
- **Impact:** Demonstrated ability to work with emerging networking technologies and software-defined solutions

Flappy Bird Clone – WebGL & JavaScript Game Development

Computer Graphics Project | May 2024

- Developed an interactive Flappy Bird-style browser game using HTML, CSS, JavaScript, and WebGL.
- Implemented real-time rendering, collision logic, and physics behaviours.
- Designed responsive UI and game loops similar to modern 2D/3D engines.
- Demonstrated skills in graphics programming, user interaction, and event-driven architecture.
- Hosted on GitHub Pages as part of portfolio.

CERTIFICATIONS

- AWS Cloud Practitioner Essentials Training – AWS Skill Builder (2025)
- Practical Software-Defined Networking (SDN) & OpenFlow – LinkedIn Learning (July 2025)
- Cisco Networking Foundations: IP Addressing – LinkedIn Learning (April 2025)
- Learning IP Addressing – LinkedIn Learning (April 2025)

KEY COMPETENCIES & ATTRIBUTES

- **Software Development:** Strong programming abilities across multiple languages with focus on clean, well-documented code
- **Problem-Solving & Creative Thinking:** Demonstrated ability to tackle complex technical challenges with innovative solutions
- **AI & Emerging Technologies:** Experience integrating cutting-edge technologies into practical applications
- **Systems Architecture:** Understanding of multi-component system design, integration, and optimization
- **Quick Learner & Self-Motivated:** Successfully acquired multiple certifications while maintaining strong academic performance
- **Team Collaboration:** Experience coordinating technical projects and working in multi-disciplinary environments
- **Communication Skills:** Ability to document complex technical systems and present findings clearly
- **Innovation Mindset:** Consistent exploration of new technologies (AI, cloud, SDN) and their practical applications
- **Attention to Detail:** High standards for code quality, testing, and comprehensive documentation

AREAS OF INTEREST

- AI-powered automation
- API integrations and workflow systems
- Digital marketing technology
- Cloud-based automation platforms

ADDITIONAL INFORMATION

- Strong software development ability, clean, well-documented code
- Excellent analytical and problem-solving skills
- Experience with AI, cloud, and emerging technologies
- Understanding of system architecture and optimisation
- Fast learner with strong self-motivation
- Effective collaborator in multidisciplinary teams
- Clear communicator with strong documentation skills
- Innovative thinker with practical engineering experience
- Portfolio: lindokuhlelanga.github.io

REFERENCES

- H.G. Lubbe
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