

# TED SIMWA

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## PROFESSIONAL PROFILE

Versatile IT Professional with hands-on experience across software development, cloud services, and infrastructure management. Proven track record in full-stack web development, having delivered enterprise-grade applications and modern web solutions using cutting-edge technologies like Next.js, React, and Node.js. Combining technical expertise with strong analytical skills to deliver innovative solutions to complex problems. Known for exceptional attention to detail, continuous learning mindset, and ability to thrive in fast-paced environments. Seeking to leverage my diverse technical background and project portfolio to contribute to forward-thinking technology initiatives.

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## CORE COMPETENCIES

### Software Development

- React/Redux frameworks & Redux Toolkit
- Next.js & TypeScript development
- Java & Python programming
- Full-stack web development (MERN Stack)
- UI/UX implementation
- State management & Context API
- Form handling & validation (React Hook Form, Zod)
- Real-time applications (Socket.io)

### Frontend Technologies

- Tailwind CSS & responsive design
- Radix UI & modern component libraries
- Framer Motion animations
- React Testing Library & Jest
- ESLint & code quality tools

### Backend & Database

- Node.js & Express.js
- MongoDB & Redis
- RESTful API development
- JWT authentication & security
- Payment processing integration

## **Infrastructure & Cloud**

- AWS (EC2, S3, CloudFront)
- Docker containerization
- Kubernetes orchestration
- VMware virtualization
- NetApp storage solutions
- Veeam backup systems
- Network security

## **DevOps & Testing**

- GitHub Actions CI/CD
- Jest & Cypress testing
- Git version control
- PNPM package management
- Docker deployment

## **Professional Skills**

- Technical troubleshooting
- Systems documentation
- Cross-functional collaboration
- Project lifecycle management
- Analytical problem-solving
- Agile development methodologies

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# **PROFESSIONAL EXPERIENCE**

## **SOFTWARE DEVELOPMENT INTERN**

Peak and Dale Solutions Ltd | Feb 2024 - May 2024

Led frontend development for enterprise timesheet management system, delivering key components that enhanced workflow efficiency and reporting capabilities.

- Engineered responsive UI components using React and Chakra UI that improved user experience and reduced task completion time by approximately 25%
- Architected modular component library for Projects, Tasks, and Admin panels, ensuring scalability and code reusability
- Implemented complex state management using Redux, enabling real-time data synchronization across application
- Collaborated in agile development environment, participating in daily standups and biweekly sprint reviews
- Optimized application performance through code refactoring and strategic component modularization

## **CLOUD WORKER**

Cloudfactory Limited | Jan 2019 - May 2024

Specialized in high-precision data processing and annotation services for AI/ML projects across multiple industry verticals.

- Executed complex data annotation tasks with 98% accuracy rate using specialized platforms including Label Box and Amazon Mechanical Turk
- Processed over 5,000 transcription tasks for Expensify SSDOS, consistently exceeding quality benchmarks
- Contributed to team performance improvements by providing targeted feedback on tool functionality and process optimization
- Selected for advanced training in specialized annotation techniques based on exceptional performance metrics

## **IT INFRASTRUCTURE INTERN**

Datapost Limited | Jun 2023 - Aug 2023

Supported enterprise-level infrastructure management and cloud deployment initiatives.

- Managed critical storage systems using NetApp, ensuring 24/7 data integrity and availability for essential business operations
- Configured and maintained virtualized environments using VMware and orchestrated containerized applications with Kubernetes cloud services
- Implemented comprehensive backup and recovery processes using Veeam, significantly enhancing organizational data security and reducing recovery time
- Developed clear, detailed technical documentation for system configurations and step-by-step troubleshooting procedures that improved team response times

## IT DEPARTMENT INTERN

The Karen Hospital | May 2019 - Jul 2019

- Delivered technical support for critical healthcare information systems, resolving an average of 15 support tickets daily while maintaining high customer satisfaction
  - Performed network configuration and troubleshooting that significantly reduced system downtime and improved operational efficiency
  - Collaborated on successful deployment of new systems across multiple hospital departments, ensuring smooth transitions and minimal disruption to patient care
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## PROJECTS

### Simca Cleaning Website

*Timeline: Days 1-12*

A responsive website for Simca Cleaning Company, a Nairobi-based SME, featuring service listings, booking forms, client testimonials, and an interactive map for service areas, designed to increase client inquiries and streamline bookings.

### Technical Stack:

- **Frontend:** Next.js 15.2.4, React 19, TypeScript, Tailwind CSS, Radix UI, React Hook Form, Zod, Framer Motion, Leaflet, Recharts, Next Themes
- **Development Tools:** TypeScript, PostCSS, ESLint, PNPM
- **UI/UX:** Tailwind CSS, Radix UI Components, Lucide React (Icons), Sonner (Toast Notifications), Embla Carousel, React Day Picker, React Resizable Panels
- **Form Handling & Validation:** React Hook Form, Zod, @hookform/resolvers
- **State Management:** React built-in state, React Context (via next-themes)
- **Development Environment:** Node.js, TypeScript, Git

# E-Commerce Platform with Real-time Inventory Management

*Timeline: Days 13-24*

A full-stack e-commerce platform for small businesses with real-time inventory tracking, payment processing, and analytics dashboard.

## Technical Stack:

- **Frontend:** React.js 18+, TypeScript, Tailwind CSS, Redux Toolkit, Socket.io-client
  - **Backend:** Node.js, Express.js, TypeScript, MongoDB, Redis
  - **DevOps:** AWS (EC2, S3, CloudFront), Docker, GitHub Actions
  - **Testing:** Jest, Cypress, React Testing Library
  - **Security:** JWT, bcrypt, helmet, rate-limiting
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## EDUCATION

### BACHELOR OF SCIENCE: COMPUTER SCIENCE

Africa Nazarene University | 2020 to date

#### Key Areas of Study:

- Data Structures & Algorithms
- Machine Learning
- Database Systems
- Information Security
- Operating Systems
- Natural Language Processing

### HIGH SCHOOL DIPLOMA

Alliance High School | Graduated 2015 with Grade A

**Achievements:** Presidential Award recipient • Varsity Football Team • German Language Club

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## CERTIFICATIONS

**HCIA Big Data v3.0 Certification** — Huawei (Completed May 2023)