KATISO NTSEARE

SOFTWARE DEVELOPER | BACKEND & FULL-STACK ENGINEERING | CLOUD & DEVOPS | CYBERSECURITY

South Africa JHB/PE | 063 359 9308 | katisontseare@outlook.com | My LinkedIn | GitHub Link | My Portfolio

PROFILE SUMMARY

Software Developer and Technology Entrepreneur with a completed Diploma in Information Technology, Software Development from Nelson Mandela University. Experienced in building full-stack applications, REST APIs, authentication systems and database-driven platforms using C#, ASP.NET Core, SQL Server, React, Next.js, TypeScript and Python.

Demonstrates practical experience in software architecture, API security, testing, payment integrations, infrastructure and application deployment through professional experience and independent product development. Also brings entrepreneurial experience through founding and developing technology businesses, alongside leadership, tutoring, communication and collaborative problem-solving skills. Passionate about building reliable technology solutions that address real-world challenges.

TECHNICAL SKILLS

Backend Engineering: C#, ASP.NET Core Web API, Entity Framework Core, Python, FastAPI, Node.js, Express, REST API design, Clean Architecture
Frontend Engineering: Next.js, React, TypeScript, JavaScript, HTML5, CSS3, Tailwind CSS, responsive UI development
Databases: Microsoft SQL Server, T-SQL, MongoDB, PostgreSQL, schema design, EF Core migrations, query design and optimization
DevOps & Infrastructure: Docker, IIS, Azure DevOps, Git, GitHub, CI/CD concepts, Cloudflare, Linux/VPS deployment, reverse proxies, environment configuration
Linux & Scripting: Linux, Kali Linux, Bash/Shell scripting, SSH, permissions, services, package management and command-line administration
Networking: TCP/IP, DNS, DHCP, HTTP/HTTPS, ports and protocols, routing/switching fundamentals, network troubleshooting and Linux networking
Cybersecurity: Ethical hacking, Kali Linux, security testing, vulnerability-assessment fundamentals, ASP.NET Core Identity, JWT, RBAC, CORS, CSRF protection, secure cookies, rate limiting, security headers and API hardening
Tools & Integrations: Visual Studio, VS Code, SSMS, Postman, npm, Node.js, Payment Gateway integration, Azure CLI, Pandas for Data Analysis

PROGRAMMING LANGUAGES

C# | Python | TypeScript | JavaScript | SQL / T-SQL | Bash / Shell Scripting | HTML / CSS

WORK EXPERIENCE

Software Developer / Product Developer | Taxar
2025 | Gqeberha, South Africa

- Contributed to product engineering across backend, frontend, authentication, APIs and platform architecture.
- Worked with secure application patterns, Git-based collaboration, deployment workflows and maintainable system design.

Computer Tutor | Via ProIT Academy at Nelson Mandela University
2025 | Gqeberha, South Africa

- Tutored students in Microsoft 365, C#, Computer Networks and Information Systems, translating technical concepts into structured, practical learning.
- Supported problem solving, programming fundamentals, technical exercises and academic development.

ENTREPRENEURIAL EXPERIENCE

Founder & Technology Entrepreneur / ProIT Solutions (PTY) Ltd
Website: https://www.proit.dev

- Founded and lead a technology business focused on software development, AI and automation, cloud solutions and cybersecurity.
- Drive technical strategy, solution development, business operations and technology delivery.

Founder | ProIT Managed Cloud

Website: https://www.cloud.proit.dev/

- Building a managed cloud services offering focused on website hosting, domain management, professional email, security and ongoing website maintenance.
- Oversee technical infrastructure, service development, deployment and customer-facing solutions.

SELECTED TECHNICAL PROJECTS

Luminar Learning – Full-Stack Learning & Tutoring Platform | Click HERE to visit

University Final-Year Project

- Architected a multi-service SaaS platform with a Next.js frontend, ASP.NET Core Web API backend, SQL Server/EF Core data layer and Python FastAPI document service.
- Implemented role-based authentication, email OTP verification, student/tutor/academy workflows, bookings, payments, document processing, reporting and protected API flows.
- Prepared production architecture for IIS deployment, including frontend/backend routing, CORS, secure cookies, PayFast callbacks, environment configuration and Python service integration.

Affinity Voting Platform – Student Voting System | | Click HERE to visit

Software Project

- Developed a role-based voting platform supporting residences/buildings, configurable categories, one-vote-per-category rules and administrative workflows.
- Handled deployment configuration, origin/security controls and production troubleshooting for a public-facing Next.js application.

EDUCATION

Diploma in Information Technology – Software Development | Nelson Mandela University

Completed 2026

- Focus areas: software development, databases, computer networking, information systems, backend/frontend engineering and applied project development.
- Final-year project: Luminar Learning, a multi-service learning and tutoring platform integrating Next.js, ASP.NET Core, SQL Server and Python services.

Higher Certificate in Information Technology – User Support Services | Nelson Mandela University

Completed 2023

- Focus areas: Computer hardware and software support, computer networking, operating systems, troubleshooting, end-user support, information systems and IT infrastructure.
- Practical experience: diagnosing technical issues, configuring systems, supporting users, working with networks, maintaining computer systems and applying general IT support principles.

TECHNICAL DEVELOPMENT

Continuous hands-on development across Docker, Kubernetes, Linux, Kali Linux, Bash/Shell scripting, computer networking, cloud/DevOps, API security, backend architecture, full-stack engineering and deployment practices.

TECHNICAL & LEADERSHIP HIGHLIGHTS

Chairman | Geekulcha Student Society (GKSS-NMU)

Nelson Mandela University | Gqeberha, South Africa

- Lead the GKSS-NMU chapter, supporting student engagement, technology initiatives and collaborative development.
- Provide leadership and direction while promoting innovation, networking and opportunities for students within the technology community.
- Represent the chapter and contribute to building an active, technology-focused student community.

CAREER FOCUS

Open to graduate and junior opportunities in software engineering, backend development and full-stack development, with additional interests in cloud engineering, DevOps and application security.