

Xolani Shabangu

079 615 9156 | xolanishabangu97@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Graduate Software Developer holding an Advanced Diploma in ICT (NQF 7), with a solid foundation in software development principles and problem-solving. Highly motivated, adaptable, and eager to apply technical skills in a professional environment while continuously learning and contributing to team and organisational success.

EDUCATION

Advanced Diploma in Information Communications Technology (ICT) 2025

Durban University of Technology, Durban

Relevant coursework:

- Applied Mathematics (Statistics, data analysis)
- Machine Intelligence
- Data Structures

Diploma in ICT: Applications Development 2024

Durban University of Technology, Durban

Relevant coursework:

- Information Systems
- Applications Development
- Project Management
- Software Testing

PROJECTS ([PORTFOLIO LINK](#))

FountainCourt Apartments Management System | C#, ASP.NET, HTML/CSS, JavaScript, SQL Server 2025

- Built a web-based rental and tenant management platform to streamline landlord-tenant workflows, from lease applications to payments, maintenance and analytics.
- Developed the full-stack functionality of the website, implemented role-based access, built modules for payments, lease signing and email automation.
- Delivered a fully working system that cut the process of applying to lease all the way to rental payments to a short time, and the landlord process of bookkeeping to a short job.

SafeDUT | Java, Android Studio, Firebase, Google Maps API 2025

- Developed a mobile application to enhance student and staff safety on the school campus by enabling real-time alerts, emergency communication and incident reports to security services.
- Led development of core features including panic button alerts, incident reporting, geofencing and real-time chat with security.
- Delivered a working mobile app that provided hands-on experience in mobile application development.

Northmed Clinic Inventory System | C#, ASP.NET, HTML/CSS, JavaScript, SQL Server, Azure 2025

- Built a web-based inventory and procurement system to assist pharmacists in managing medicine stock and optimising supplier selection based on pricing and availability.
- Developed intelligent order-processing logic that evaluates multiple suppliers, compares pricing and stock levels, and determines the most cost-effective purchasing combination.
- Gained experience in designing decision-making algorithms, working with relational data for optimisation problems, and integrating cloud-based services using Azure.

Pig Game | HTML, CSS, JavaScript 2026

- Built an interactive two-player dice game simulating turn-based gameplay with real-time score tracking and dynamic UI updates.
- Implemented core game logic including random dice generation, conditional turn switching, score accumulation, and win-state detection.
- Applied JavaScript fundamentals such as DOM manipulation, event handling, and state management while developing the project as part of my learning journey in JavaScript.

CalcSHARP | HTML, CSS, JavaScript

2026

- Built a fully functional calculator with a hidden twist — a live C# code executor triggered by a single button, powered by the Wandbox API.
- Implemented standard arithmetic, percentage/toggle support, thousand-separator formatting, full keyboard input, and division-by-zero handling; in code mode, calculator elements scatter via CSS animations and a C# console slides into view.
- Deepened skills in DOM manipulation, async fetch calls, layout animation, and API integration, all in vanilla JS with no frameworks.

WTHR_OR_NOT | HTML, CSS, JavaScript, Open-Meteo API

2026

- Built a pixel-art weather app with location search, live autocomplete, current conditions, a 7-day forecast strip, C/F unit toggle, and local time display at the searched location.
- Implemented dynamic weather themes (8 colour palettes driven by CSS custom properties on <body>) and a Canvas animation layer using requestAnimationFrame to render weather-specific pixel-art particles — rain, snow, stars, lightning, fog, and more.
- Integrated the free Open-Meteo geocoding and forecast APIs with a 280 ms debounce on autocomplete; sharpened skills in external API consumption, canvas drawing, and CSS theming with no frameworks or build tools.

TECHNICAL SKILLS

Languages | Python, JavaScript, C#, SQL, HTML/CSS

Frameworks | Flask, ASP.NET

Developer Tools | Git, Visual Studio Code, Android Studio, SQL Server, Networking

CERTIFICATIONS

Introduction to Packet-Tracer (Cisco Networking Academy)

2022

Acquired basic skills on how network systems operate.

Cybersecurity Essentials (Cisco Networking Academy)

2021

Acquired skills on how to ensure system maximum security and vulnerability safeguarding.

Build Responsive Real-World Websites with HTML and CSS (Udemy)

2025

Gained impactful skills on front-end web development and skills to code more efficiently.

KEY COMPETENCIES

- Developed and maintained web applications using the .NET stack and web technologies through academic projects, including full-stack development with C#, ASP.NET, HTML5, CSS3, JavaScript and SQL Server.
- Demonstrated strong web programming and database management skills by designing relational databases, writing SQL queries, stored procedures and analysing data to support application functionality and reporting.
- Applied advanced troubleshooting and debugging techniques during development, identifying root causes of application, database, and logic errors, and implementing effective fixes to improve stability and usability.
- Built full-stack systems integrating front-end UI with server-side logic and databases, applying architectural patterns such as MVC, and ensuring clean, reusable and maintainable code.
- Gained foundation experience with cloud and enterprise concepts including Azure fundamentals, networking, Active Directory principles and security policies.
- Demonstrated strong problem-solving and analytical skills by independently owning assigned development tasks, seeing them through from requirements to delivery with minimal supervision.