

Yandhile Maluleke

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📍 Pretoria, Gauteng

🌐 Yandhile Maluleke

🔗 YandhileM

🔗 <https://yandhile.netlify.app/>

PROFILE

Ambitious Mathematical Science graduate specializing in Statistics and Computer Science with professional expertise in full-stack development and data science. Experienced full-stack developer proficient in modern frameworks (Vue.js, React, .NET) and cloud technologies, with a proven track record of building scalable web and mobile applications. Skilled in collaborative development environments, applying agile methodologies and leveraging strong problem-solving abilities to create community-driven, impactful technical solutions.

PROFESSIONAL EXPERIENCE

2024 – present
Pretoria, South Africa

Full stack developer
Softidoc

- Developed and maintained responsive web applications using Vue.js and React.js, ensuring high performance and usability across devices.
- Built reusable components and efficiently managed application state using Vuex and Pinia.
- Integrated RESTful APIs to support dynamic, real-time data handling within applications.
- Developed robust backend services and APIs using C# and .NET framework to support frontend applications.
- Implemented real-time communication features using SignalR for live data updates and interactive user experiences.
- Actively contributed to agile development practices, participating in daily stand-ups, sprint planning, and retrospectives.
- Developed Progressive Web Applications (PWA) to enhance mobile engagement, providing offline access and app-like experiences.
- Assisted in troubleshooting technical issues across web and mobile platforms, ensuring minimal downtime and fast resolution.

2023

Computer lab assistant
University of Limpopo

- Assisted students and staff with troubleshooting hardware, software, and network issues.
- Monitored lab usage and enforced lab rules to maintain a productive environment.
- Provided technical support for printing, scanning, and login-related issues.
- Ensured the lab was clean, organized, and equipment was properly stored after use.
- Supported instructors during computer-based tutorials or practical sessions.

EDUCATION

2023

BSc Math and computer science
University of Limpopo

Specialized coursework in Statistics, Data Analysis, Algorithms, and Software Engineering principles

2017

Senior certificate
Rietondale High School

PROJECTS

TshwaneBusWatch (React Native & .NET Core)

- Created a community-driven mobile app to solve the problem of commuters waiting indefinitely for buses that never arrive, enabling users to report incidents and delays in real-time so others can make alternative travel plans
- Developed cross-platform solution using React Native (Expo) and TypeScript with real-time bus tracking, community incident reporting, and push notifications
- Built a .NET 8 ASP.NET Core Web API backend with PostgreSQL, implementing repository pattern, soft-delete architecture, and SignalR for real-time communication
- Designed device-based authentication system using hardware IDs and implemented geolocation-based incident reporting with 24-hour cooldown enforcement to prevent spam
- Integrated Expo Push Notifications for instant alerts to subscribed users and optimized database queries using EF Core with split queries and eager loading

Chatsta (Flutter & Vue.js with C# Backend)

- Developed a cross-platform chat application using Flutter with real-time messaging features.
- Implemented user authentication and secure data handling with a clean and responsive UI.
- Currently developing a comprehensive Vue.js frontend version with a custom-built C# backend API.
- Architected and developed RESTful API endpoints using C# and .NET Core for user management, messaging, and data persistence.
- Implemented real-time bidirectional communication using SignalR for instant messaging and live updates.
- Designed and implemented database schema and data access layers using Entity Framework Core.
- Applied best practices in state management, API integration, and cross-platform development.
- Focused on delivering a seamless user experience across Android, iOS, and web platforms.

Personal Portfolio Website (HTML, CSS) [<https://yandhile.netlify.app/>]

- Designed and developed a responsive personal website using HTML and CSS.
- Showcases professional information, skills, projects, and contact details.

CERTIFICATES

2023 **Microsoft Azure AI Fundamentals**

Microsoft

Foundational knowledge of AI and machine learning concepts, Azure AI services, computer vision, natural language processing, and conversational AI solutions

2022 **Applied Data Science**

WorldQuant University

Comprehensive program covering statistical analysis, machine learning algorithms, data visualization, and quantitative research methods

SKILLS

- | | | | |
|---------|----------|-----------|----------|
| • HTML5 | • Vuejs | • ReactJs | • C# |
| • CSS3 | • Nodejs | • Flutter | • Python |
| • C++ | • Git | | |

SOFT SKILLS

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|--------------------|-----------------|------------|-------------------|
| • Problems solving | • Communication | • Teamwork | • Resourcefulness |
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