Kwazi Ngidi

South African Citizen│068 146 8109│ [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

University of the Witwatersrand
Bachelor of Science in Computer Science   **Jan 2022 - Present**
Relevant Coursework: Data Structures & Algorithms, Software Engineering, Databases, Cloud Computing, Artificial Intelligence

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TECHNICAL SKILLS

- Programming & Scripting: JavaScript (Node.js, Express.js), Java, PHP, SQL, HTML5, CSS3
- Databases: MongoDB, PostgreSQL, Supabase
- Cloud & DevOps: Microsoft Azure, Git, GitHub, CI/CD pipelines
- Authentication & Security: JWT, Google OAuth, bcrypt, Express Sessions
- APIs & Integrations: REST APIs, Google Gemini AI, USSD (Africa's Talking)
- Methodologies: Agile, SDLC, Test-driven development (TDD), Rapid prototyping

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PROJECT EXPERIENCE

Mentaly-Mental Health Support Platform │ Frontend Developer
Node.js, Express.js, MongoDB, Google Gemini, USSD, JavaScript (ES6+), HTML5, and CSS3.

- Developed an AI-powered, multilingual chatbot for mental health support using Google Gemini.
- Built a secure backend with role-based authentication and encrypted user sessions.
- Designed USSD (*384#) and SMS booking systems, enabling access for users without internet.
- Implemented analytics dashboards for mood tracking and personalized insights
- Built a responsive and intuitive frontend using vanilla JavaScript (ES6+), HTML5, and CSS3. The focus was on creating a user-friendly interface that works seamlessly across devices, from the main dashboard to the professional directory and community forums.

Campus Study Buddy │ Full-Stack Developer
Supabase, PostgreSQL, Express.js, Real-time WebSockets, JWT, JavaScript (ES6+), HTML5, and CSS3

- *Architected a real-time chat and notification system using Supabase's websocket engine.*
- *Designed scalable server-side logic for user authentication and role-based permissions.*
- *Enhanced security by integrating a service-role JWT for sensitive operations.*
- *Improved team collaboration features, supporting large groups of students.*

Research Collaboration Platform │ Backend Developer
Express.js, Supabase, PostgreSQL, Google OAuth

- *Implemented secure authentication with JWTs and Google OAuth.*
- *Configured Supabase for scalable database operations and real-time updates.*
- *Wrote middleware for logging, error handling, and environment-based configs.*

Portfolio Website │ Solo Developer
Node.js, Express.js, HTML5, CSS3, JavaScript, Azure, CI/CD

- *Built a full-stack portfolio with RESTful APIs for dynamic project serving.*
- *Set up a CI/CD pipeline with GitHub Actions for automated testing and deployment to Azure.*
- *Optimized performance and SEO to improve recruiter visibility.*

EXPERIENCE

Hackathon Participant – Wits University

- Collaborated in Agile, team-based environments to deliver prototypes under tight deadlines.
- Gained hands-on experience in rapid prototyping, version control, and presenting solutions.
- Developed projects using modern stacks (Node.js, cloud, APIs) relevant to industry.