

NQOBILE NKIWANE

Software Engineer

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SUMMARY

BSc Information Technology graduate specialising in Computer Science and Informatics. Led the development of a system for a local client including a web and mobile app. Skilled in mobile app development and API design with a passion for solving business challenges through technology.

EDUCATION

Bachelor of Science in Information Technology, *University of Johannesburg*

Monkey and River Hackathon

- Led back end development of an AI powered mobile health monitoring system that measures heart rate and blood glucose levels via smart phone camera using PPG technology
- Integrated Azure Cognitive Services Translator Speech to text and multilingual voice interactions in Zulu and English
- Connected to a Spring Boot PPG microservice for labome titration and created a mock PPG service for rapid prototyping and offline testing
- Implemented a lightweight backend to interpret both English and s Zulu voice requests and respond with localized audio feedback
- **Tech stack:** Node.js Express Azure Cognitive Services Spring Boot JavaScript REST APIs

Certificates

First Place, *Monkey and River*

Certificate of Participation Winner Recognized for building an s Zulu AI Voice Health Assistant integrating Azure Cognitive Services and PPG biometrics

ADDITIONAL INFORMATION

Technical Skills

Mobile App Development Kotlin Java API Development FastAPI Web Development HTML CSS JavaScript Database Management PostgreSQL

Languages

English Is Zulu