

THOBILE MICHELLE NKOMO

✉ [Email](#) | 💻 [GitHub](#) | ⓘ [LinkedIn](#)

EDUCATION

BSc Computer Science | University of the Witwatersrand | 2023

National Senior Certificate | Liberty High School | 2020

RELEVANT SKILLS

Intermediate | **Java, Python, JSX, HTML, CSS, JS, ReactJS, Git and GitHub, Microsoft Office, Mathematics**

Beginner | **Unit Testing, SQL, PHP, C, C++, Android Studio, NodeJS, Electron**

WORK EXPERIENCE

Junior Software Developer | Matateni Solutions | 2023

I assisted in the development of a Barcode Printing and Scanning system for a forensics company using Electron (similar to ReactJS) and NodeJS for a duration of 6 months.

PROJECTS

GoonMart Online Store | I worked with 5 classmates to design and develop an online store, similar to Takealot or Amazon, using *ReactJS* and *NodeJS*. I took part in the design, documentation, front-end and some back-end development of the platform. We used *Git and GitHub* for version control, *Notion* for project management, *TravisCI* for continuous integration and *Coveralls* for code coverage.

Snake Game Agent | I developed an AI snake agent that participated in a modified version of the classic 'snake game' and competed against other snake agents. Here I implemented the *A* pathfinding algorithm* using *Java* to guide my agent in finding the shortest path to the goal(apple), while avoiding obstacles. See more on www.snake.wits.ai.

ACHIEVEMENTS AND ROLES

Wits* Merit Entrance Scholarship | 2021

Student Leadership – Head Prefect | 2020

Student Leadership – Prefect/Counsellor | 2017 - 2019

Chess Club | 2018, 2019

CAT* Olympiad – Silver Finalist | 2019, 2020

Swaziland Science Expo – Silver Medal Finalist | 2017

COURSEWORK

Data structures

Software design

Advanced analysis of algorithms

Mobile computing

Machine learning

Optimization

Database fundamentals

Operating systems

Computer graphics and visualization

Parallel computing

Mathematical modelling

Abstract mathematics

Linear algebra

Calculus

Statistics

SOFT SKILLS

Leadership, Quick problem solver, Analytical, Team player, Self-driven, High emotional intelligence, Quick learner.

INTERESTS

Chess, Tech Trends, Music, Fashion, Learning How to Pronounce 'Euler'.

REFERENCES AVAILABLE ON REQUEST.

Wits* – University of The Witwatersrand

CAT* - Computer Applications Technology