

# Mhd Qais Alsaleh

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## OBJECTIVE

Aspiring computer scientist with a strong foundation in algorithms, software development, and machine learning. Seeking to leverage my skills and project experience to contribute to innovative technology solutions and gain practical experience in the tech industry.

## EDUCATION

**University of the Witwatersrand** - Johannesburg, Gauteng

(April 2022 - December 2024)

Bachelor of Science – Computer Science

Relevant Courses:

- |   |                    |                         |
|---|--------------------|-------------------------|
| - Intro to Data Structures and Algorithms | - Mobile Computing | - Database Fundamentals |
| - Information Systems                     | - Machine Learning | - Computer Networks II  |
| - Analysis of Algorithms II               | - Software Design  | - Operating Systems     |

**North America International School** - Pretoria, Gauteng

(August 2018 - August 2021)

High School Diploma

## PROJECTS

### Common-Grounds Property Management Platform (Group Project):

- Contributed to the development of a responsive web-based platform for property management, focusing primarily on backend infrastructure, testing methodologies, and some frontend development tasks.
- Resulted in improved property administration processes and increased tenant satisfaction.

Technologies Used: JavaScript, HTML, CSS (Tailwind), Node.js, Express.js, MongoDB, Jest, GitHub Actions

### Snake AI Development:

- Accomplished enhancing the classic Snake game by developing an AI to guide the snake around obstacles and consume apples.
- Resulted in increased player engagement and satisfaction due to the improved gameplay experience.

Technologies Used: Java

### Sudoku Solver:

- Successfully solved Sudoku puzzles of varying sizes and difficulties by implementing an Iterative Depth First Search algorithm.
- Ensured correct solutions through systematic state validation and backtracking, resulting in an efficient and reliable puzzle-solving method.

Technologies Used: C++, STL, Data Structures

## SKILLS

### Technical Skills:

- Programming Languages: Java, C++, JavaScript, HTML, CSS
- Frameworks and Libraries: React, Context API, Custom Hooks, React Router 6
- Tools and Technologies: JWT, Axios, MongoDB, Git

### Soft Skills:

- |                       |                       |
|-----------------------|-----------------------|
| - Problem-solving     | - Analytical thinking |
| - Attention to detail | - Team collaboration  |