

# MOHAMMED AQEEL ISMAIL

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## Career Objective

I am a BSc Computer Science and IT graduate and am currently Honours student at the University of KwaZulu-Natal. I am seeking a graduate opportunity in software development. I am passionate about designing efficient, scalable, and user-centric software solutions. I have a strong foundation in data structures, algorithms, and object orientated programming. I aim to contribute to innovative projects while continuously advancing my technical and professional skills.

## Education

### University of KwaZulu-Natal 2022- 2024

#### BSc Computer Science and Information Technology 2025 – BSc Honours (Computer Science)

##### Relevant Coursework:

- Object-orientated Programming
- Data Structures and Algorithms
- Database and Programming
- Artificial Intelligence
- Computer Systems and Theory of Computation
- Image Processing and Computer Vision
- System Analysis and Design
- Networking and Database Management

### Raisethorpe Secondary School 2016- 2020

#### National Senior Certificate (Bachelor's Pass)

Achieved 4 distinctions with an excellent academic aggregate

##### Subjects:

- English Home Language
- Afrikaans First Additional Language
- Mathematics
- Life Orientation
- Accounting
- Geography
- Life Sciences

## Technical Skills

**Programming Languages:** HTML, CSS, Python, Java, C++, SQL, C#

**Tools and Technology:** Wing, Notepad++, JGrasp, Eclipse, Clion, SQLSMS19, Visual Studio, PowerBI, Google Colab, IntelliJ

**Core Competencies:** Object-Orientated Programming, Web Development, Data Structures and Algorithms, Database Management, Problem Solving, Team Collaboration

<b>Experience</b>	<b>Programming Demonstrator (Part-time)</b> <b>University Of KwaZulu-Natal</b>   Feb 2024- Oct 2024   Aug 2025- Present <ul style="list-style-type: none"> <li>Assisted first-year and second year students in mastering Python, Java and Data Structures during practical lab sessions.</li> <li>Modules: <ul style="list-style-type: none"> <li>Comp100- Introduction to Computer Science; Language: Python (2024)</li> <li>Comp102- Computer Programming; Language: Java (2024 and 2025)</li> <li>Comp201- Data Structures and Algorithm (2025)</li> </ul> </li> <li>Provided hands-on support in debugging and building programs and applying theoretical concepts.</li> <li>Encourage collaboration and critical thinking through peer-to-peer guidance and mentorship.</li> </ul>
<b>Key Projects</b>	<b>Point of Sales system for Townbush Pharmacy</b> <ul style="list-style-type: none"> <li>Developed a full-stack ASP.NET web application with secure login, shopping cart, and payment integration in C#, HTML, CSS and Javascript</li> <li>Designed and implemented SQL-based data storage and transaction management.</li> <li>Focused on performance optimization and clean UI/UX design.</li> </ul> <b>Simple Biology Quiz and Word Search Game</b> <ul style="list-style-type: none"> <li>Developed an interactive multiple-choice biology quiz with an integrated word-search puzzle for enhanced user engagement in C++.</li> <li>Implemented difficulty levels, timed challenges, and dynamic question selection to adapt to the player's skill level.</li> <li>Designed modular functions for quiz logic, word-search generation, and timer management to ensure code clarity and scalability.</li> <li>Focused on creating a smooth user experience with responsive input handling and clear feedback for correct and incorrect answers.</li> <li>Demonstrated strong problem-solving and algorithmic thinking through efficient puzzle generation and game-state management.</li> </ul>
<b>Strengths</b>	Strong analytical and problem-solving mindset Adaptive and quick to learn new technologies Excellent communication Teamwork abilities Detailed oriented and organized in project execution Motivated to achieve excellence in software craftsmanship Competitive
<b>References</b>	Available on request