

Thashnee Timera Naidoo

33 Westmount Drive, Broadlands, Mount Edgecombe, 4300

Mobile: 0817688599

Email: thashnaidoo02@gmail.com

Profile:

Final-year BSc Computer Engineering student at the University of KwaZulu-Natal with hands-on experience in both software development and hardware systems. Proficient in a wide range of programming languages including Python, C, C++, Java, and JavaScript, with practical exposure to web technologies (React, HTML/CSS, REST APIs), microcontroller programming, and digital system design. Skilled in tools such as Intel Quartus Prime, MATLAB, Proteus, and Git, and experienced with both front-end and back-end development. Passionate about building scalable, user-friendly solutions and eager to contribute to innovative projects in software engineering, embedded systems, and AI.

Personal Details:

Date of Birth: 23 September 2002

Sex: Female

Age: 23

Marital Status: Single

Nationality: South African

Drivers License: Code B

Education:

2021-Present University of KwaZulu Natal

BSc in Computer Engineering

2016-2020 Greenbury Secondary School

Relevant skills:

Communication:

- Strong verbal and written communication skills developed through mentoring Grade 7–12 students, adapting explanations to suit various learning styles.
- Delivered presentations and technical demonstrations in both individual and team-based academic projects.
- Experienced in preparing professional documentation, technical reports, and PowerPoint presentations.
- Volunteered at the Eskom Expo for Young Scientists as a mentor, engaging with young innovators and supporting STEM education through constructive feedback and evaluation

Computers:

- Proficient in Python, C, C#, C++, Java, Delphi, and JavaScript for application development.
- Experienced with Assembly language and microcontroller programming through university coursework.
- Web development knowledge using HTML, CSS, React.js, and REST APIs.
- Practical experience using tools such as Intel Quartus Prime, MATLAB, Proteus, and Git.
- Competent in Microsoft Office Suite: Word, Excel, and PowerPoint.
- Familiar with software development practices including version control, debugging, and testing.
- Exposure to database management and API integration using SQL and Postman.
- Designed and implemented a Retrieval-Augmented Generation (RAG) system integrating large language models with data retrieval, demonstrating skills in NLP, vector databases, and AI model integration.
- Designed and implemented a Robotic Air Hockey System as a final-year Computer Engineering project, integrating real-time control, embedded systems, and software development.

Awards & Achievements:

- Awarded a Certificate of Merit for outstanding overall system design in the *Design 3* module.
- Awarded a Highly Commended prize for Final Year Project in Computer Engineering (Robotic Air Hockey System).

Interests:

- I enjoy reading.
- I love to learn new hobbies, currently I enjoy gardening and baking.
- I also enjoy volunteering, especially when it involves engaging with learners and encouraging interest in science and technology.

Reference:

- Mr. B. Naidoo
Senior Lecturer – University of KwaZulu Natal, Howard Campus
Work Phone: 031 260 2758
Email: bnaido@ukzn.ac.za
- Dr. J R Tapamo
Professor – University of KwaZulu Natal, Howard Campus
Work Phone: 0312602751
Email: tapamoj@ukzn.ac.za
- Mr. R Padayachee
IT teacher – Greenbury secondary from grade 10-12
Mobile: 0832942439
Email: nicky.padayachee@gmail.com