

VIWE NDLALA

Final Year BSc. Computer Science and Business Computing Student

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PROFILE

I have developed a strong foundation in computer programming and clear understanding of how businesses use software to manage its operations and reliably provide goods and services to its customers. Passionate about continuously identifying potential risks, problems, and customer requirements to convert them into streamlined software solutions that enhance operational efficiencies, end user satisfaction for positive business cash flows.

EDUCATION

University of Cape Town | Cape Town, SA

Feb 2021 – Present

BSc. Computer Science and Business Computing (Information Systems)

- Modules: Business Process Redesign (BPMN & Enterprise Systems), Networks and Operating Systems, Object Oriented Programming, Systems Analysis, Systems Design and Implementation, Databases (SQL), Data Structures & Algorithms, Concurrent Programming.

Ndamase SSS | Ngqeleni, SA

Jan 2018 – Dec 2020

National Senior Certificate (NSC)

ADDITIONAL TRAINING

d-school Afrika* | University Of Cape Town

June 2025 – June 2025

Design Thinking Week Programme

- Developed ability to work in multidisciplinary team to explore real-world challenges through the lens of powerful mindset and methodology that enables tackling problems with empathy, creativity and collaboration.

YouTube

June 2025 – present

Full stack Web Development

- Self-directed online learning in Full stack Web Development (via YouTube channels like freeCodeCamp, and others). Currently covered HTML, CSS, and JavaScript basics, with the intention to continue progressing towards full stack proficiency including front-end frameworks, backend and databases.
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ACADEMIC EXPERIENCE

Mini BitTorrent System

Feb 2025 – Mar 2025

- Collaborated in a team of 3 developers to design and implement a simplified BitTorrent simulation enabling simultaneous file distribution to multiple peers, improving understanding of distributed system efficiency and network utilisation.
- Tools and technologies: Java, Socket programming, Multithreading

Business Process Redesign

Aug 2024 – Oct 2024

- Worked with a team of 6 members to define project scope, create a business case, and analyse ESEFA's "Annual Client Billing" business process using the BP Trends framework.
- Interviewed 4 stakeholders (including 1 client and process owner) to holistically view and document current workflows, identified 5 key process challenges, and proposed solutions for improved efficiency and clarity.
- Scoped business process identified problems and root causes, and redesigned process with visualised suggested operational and management reports to monitor performance.

IT Project Management

Feb 2024 – May 2024

- Applied Project Management and Design Thinking to convert insights from at least 4 stakeholder interviews into 3 detailed visual infographics explaining Indigent Grants, RDP housing processes, and illegal eviction prevention steps for community members.
 - Practiced leaderful teamwork within a team of 5 to achieve quality project within scope, time and budget.
 - Defined business case, project charter, planning and delegated tasks to ensure quality project completion.
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SKILLS

Business Process Modelling

- Modelled Business Process Model and Notion (BPMN) Diagram to describe and communicate AS-IS and TO-BE business processes.
- Gained foundational knowledge of Business Process Management (BPM) frameworks in INF3012S course.

Programming

- Completed all my academic assignments in Python and Java for computer science major.
- Familiar with C# and Databases (SQL) as I developed a 3tier architecture Hotel Booking System.
- Currently covered basic Frontend (HTML, CSS & JavaScript) in a journey of full stack web application development.

Analytical:

- Designed dashboards for easy communication of the data to allow decision making.

Communication

- Effectively shared my ideas with teams, interviewed project stakeholders and presented final solutions.

Teamwork:

- Collaborated with multiple teams to contribute to successful various project outcomes.
- Participated in a multidisciplinary team during design thinking week programme to contribute to community solution.

Problem solving:

- Applied design thinking and logical thinking to identify issues challenging project stakeholders and developed solutions during project coursework.
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