

OBJECTIVE

I am a recent graduate with a Software Development Certificate, seeking a position as a Junior Software Developer where I can leverage my skills in Java, Python, Linux and C# to contribute to building innovative, high-quality software solutions. I am eager to apply my knowledge of full-stack development and problem-solving abilities in a collaborative team environment. Driven by a passion for continuous learning and an enthusiasm for tackling technical challenges, I aim to grow within a forward-thinking company that values creativity and technical excellence.

EXPERIENCE

System Design and Architecture Diagrams

Software Engineering

- Created UML diagrams (Use Case, Class, Sequence, and Activity diagrams) to visualize software system architecture and design processes.
- Collaborated with development teams to translate functional requirements into visual models, enhancing understanding of system interactions.
- Used tools like Lucidchart, Microsoft Visio, or draw.io to design and document system workflows and data flow, ensuring clarity and alignment across teams.
- Worked on designing ER diagrams for database structures and relationships, ensuring proper data management and system integration.
- Contributed to the project documentation by creating workflow and deployment diagrams, helping streamline development and reduce misunderstandings.

Database Management System

- Designed and implemented a SQL database for a [specific application, inventory management, customer data management] system to manage and organize large datasets efficiently.
- Developed database schemas, tables, and relationships, ensuring data integrity and normalization up to third normal form (3NF).
- Wrote complex SQL queries to perform CRUD operations (Create, Read, Update, Delete) and support various functionalities, such as [specific use cases, retrieving customer information, managing transactions].
- Implemented indexing and views to optimize query performance and facilitate data retrieval.
- Used SQL joins, subqueries, and stored procedures to automate processes and improve the efficiency of data management.
- Integrated the SQL database with a front-end application or back-end server, allowing users to interact with the system dynamically.
- Ensured security by implementing appropriate access control and user authentication protocols.
- Generated reports using SQL queries to extract meaningful insights from the data, supporting decision-making and system management.

Hangman Game in C#

- Developed a console-based Hangman game using C# in Visual Studio, focusing on implementing game logic and user interaction.
- Designed and implemented the core features, including:
- Word selection: Randomly selecting words from a predefined list for players to guess.

- Gameplay loop: Allowing players to make guesses, tracking correct and incorrect attempts, and updating the display after each guess.
- Error handling: Implementing checks to ensure valid input (e.g., single letter, alphabetic characters).
- Winning and losing conditions: Implementing rules for winning or losing the game based on the number of correct guesses or remaining attempts.
- Used arrays and strings to store and manipulate game data, such as the word to guess, correct guesses, and remaining attempts.
- Created a clean user interface in the console using text-based output, showing the current word with underscores for unguessed letters and updating the player's remaining attempts.
- Developed functions for repeated game logic, including input validation, display updates, and resetting the game.
- Exception handling to prevent crashes and ensure smooth gameplay, even with invalid inputs.
- Debugging and testing: Utilized debugging tools in Visual Studio to troubleshoot and optimize the game's performance and functionality.

Takealot E-Commerce Application (Java)

- Developed a simplified version of the Takealot e-commerce application using Java, implementing key features of an online shopping platform.
- Product Management: Created classes to manage product data, including product name, price, description, and availability, using Java Collections (e.g., ArrayLists, HashMaps) for storing and manipulating product information.
- User Authentication: Implemented basic user login and registration functionality, allowing users to create accounts and log in securely using Java's built-in authentication mechanisms.
- Shopping Cart: Developed the shopping cart feature, where users can add, remove, and update items, as well as view their total purchase amount.
- Order Management: Designed an order processing system to simulate the checkout process, including payment and order confirmation.
- Search and Filter: Implemented a search feature to allow users to search for products by name or category and filter results based on price and other attributes.
- GUI Design: Used Java Swing to create a simple and intuitive Graphical User Interface (GUI) for users to interact with the application.
- Exception Handling: Added comprehensive error handling to handle invalid inputs, such as incorrect login credentials or invalid product selection, ensuring a smooth user experience.

Personal Projects

- GitHub Portfolio: <https://github.com/KayUngwyn>
 - 1) **User Application (Java)**
Technologies: Java
Developed a simple console-based Java application where users can input their name and age, and the program displays a personalized greeting message. Utilized basic input/output and conditionals for interactive functionality.
 - 2) **Java Monster Game**
Technologies: Java
Created an interactive game where players enter points to destroy monsters. Implemented basic game mechanics, input handling, and simple graphics to provide an engaging user experience.
 - 3) **Java Time Display Application**
Technologies: Java
Developed an application that continuously displays the current system time. Used Java's `LocalTime` class and GUI elements to present real-time time tracking to the user.
 - 4) **Food Display Application (C#)**
Technologies: C#
Designed a C# application using Windows Forms that displays a list of food items in an interactive interface. Focused on basic UI development and data presentation.
 - 5) **To-Do List Application (C#)**
Technologies: C#

Built a to-do list app that allows users to add and view tasks. The tasks entered by users are displayed in a text box. Incorporated event handling and data management for task storage.

6) **ASP.NET Fan Speed Application**

Technologies: ASP.NET, C#

Created a web application in ASP.NET where a fan graphic's speed increases as the user enters a number. The speed adjustment was dynamically reflected based on input values, demonstrating basic web development and dynamic content rendering.

7) **Vowel and Consonant Checker (Java)**

Technologies: Java

Developed a simple Java application where users input a letter, and the program identifies whether it's a vowel or consonant. This project demonstrated basic string handling and conditional logic.

EDUCATION

Software Development Certificate

Eduvos Private Institution | Cape Town, Western Cape | 2022 – 2024

Key Coursework: Java Programming, Database Management, Full-Stack Development, Web Development.

High School Matric Certificate

Rocklands High School | Cape Town, Western Cape | 2016 – 2021

Subjects: English, Afrikaans, Mathematical Literacy, Geography, History, Tourism, Life Orientation.

SKILLS

- Problem-Solving abilities
- Attention to Detail
- Adaptability and Willingness to learn
- Strong Analytical Skills
- Team Collaboration
- Time Management
- Communication Skills
- Strong Work Ethic and Initiative
- Logical Thinking and Creativity

ACTIVITIES

Self-Learning and Development

- Continuously learning new programming languages and frameworks through online tutorials and books.
- I am actively developing my portfolio on GitHub with coding challenges, app prototypes, and more.
- In addition to learning, I build personal projects to apply newly learned concepts.
- I am actively working on my communication, teamwork, and collaboration skills through group projects and contributions to coding communities. I believe these skills are crucial for working effectively in development teams.

Hobbies and Interests

- Game Development: Passionate about creating simple games in Java and C#.

- I enjoy solving difficult problems and am always motivated to learn new techniques and approaches to tackle challenges efficiently.
- I am engaged in logic puzzles, chess, and strategic games to sharpen my analytical and problem-solving skills. I love exploring different approaches to solving complex problems.
- Traveling to new places to experience different cultures and broaden my perspectives. This helps me become more adaptable and open-minded, qualities that are important for collaborating with diverse teams in global software development environments.



REPUBLIC OF SOUTH AFRICA
NATIONAL IDENTITY CARD

Surname
UNGWYN
Names
MIKAYLA SHARLOTTE
Sex
F
Nationality
RSA
Identity Number
0304200430086
Date of Birth
20 APR 2003
Country of Birth
RSA
Status
CITIZEN



Signature

DRIVING LICENCE



SOUTH AFRICA

CARTA DE CONDUCAO

MS UNGWYN

ID No. 02/0304200430086 FEMALE

Birth 20/04/2003 ZA Restrictions 1

Licence Number 601100005F03 No. 1

Valid 15/03/2022 - 15/03/2027

Issued ZA

Code:

Vehicle restrictions

First issue

B
O
15/01/2022



Conditions:

This card has been issued by the Department of Home Affairs in terms of the Identification Act, Act 68 of 1997

If found please return to the Department of Home Affairs
For enquiry on verification purposes contact 0800 00 11 80


Date of issue:

14 SEP 2019



111537066



DRIVER RESTRICTIONS

1. None

2. Glasses / Contact lenses

3. Anatomical form

POP CATEGORIES

P. Passenger

G. Goods

D. Dangerous goods

VEHICLE RESTRICTIONS










0. None


1. Auto-matic transmission

2. Electrically powered

3. Prohibited vehicles

4. Max m. tonnes eg (GVW) permitted

A		A1		< 125 cc
B				< 3500 kg
C1				< 7500 kg
C				> 10000 kg
EB		EC1		
EC		EC		



1977046K

109386721



REPUBLIC OF SOUTH AFRICA

STATEMENT OF RESULTS / STAAT VAN UITSLAE
NATIONAL SENIOR CERTIFICATE / NASIONALE SENIOR SERTIFIKAAT

NOVEMBER 2021

MIKAYLA USHUTH

EXAMINATION NUMBER / EKSAMINERINGSNOOMMER: 1210066230226
ID NUMBER / ID NOOMMER: 0304200430086
DATE OF BIRTH / GEBORTE DATUM: 20030420
CENTRE / SENTRUM: (1006623) ROCKLANDS SEC.

(36) METRO SOUTH WESTERN CAPE DEPARTMENT OF EDUCATION

Code Kode	Subjects Vakke	Percentage Persentasie	Achievement Level Prestasievlak
ENGBL	English Home Language	53	4
AFNFA	Afrikaans First Additional Language	64	5
MTLIT	Mathematical Literacy	52	4
LIFE	Life Orientation	60	5
GEOG	Geography	42	3
HIST	History	64	5
TRSM	Tourism	68	5
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The candidate qualifies for the National Senior Certificate and has met the minimum requirements for admission to bachelors' degree, diploma or higher certificate study as gazetted for admission to higher education.

DATE / DATUM 2022/01/14

CHIEF DIRECTOR: ASSESSMENT AND EXAMINATIONS
HOOF DIREKTOR: ASSESSERING EN EKSAMENS

Achievement Level Prestasievlak	Achievement Description Prestasiebeskrywing	Marka % Punte %
7	Outstanding achievement / Uitruimende prestasie	90 - 100
6	Meritorious achievement / Verdienstevolle prestasie	70 - 79
5	Substantial achievement / Besnoeiende prestasie	60 - 69
4	Adequate achievement / Voldoende prestasie	50 - 59
3	Moderate achievement / Matige prestasie	40 - 49
2	Elementary achievement / Basiese prestasie	30 - 39
1	Not achieved / Onvoldoende prestasie	0 - 29

A NATIONAL SENIOR CERTIFICATE WILL BE FORWARDED TO THE SCHOOL.

THE DEPARTMENT RESERVES THE RIGHT TO EFFECT CHANGES TO THIS DOCUMENT IF NECESSARY. 10/000
INDIEN MOET BEHOE DIE DEPARTEMENT DIE REG OM WYSIGINGS AAN DIE DOKUMENT AAN TE BRING.

Academic Transcript



Student: Mikayla Ungwyn
Student No: CT.2022.X8B5N7
Qualification: Higher Certificate in Information Systems - 102780

Course Detail	Target	Actual	Mark	Failures
Computer Literacy (Microsoft)				
ITCLA0-M00 Lecturer Assessment	03-08-2022	02-08-2022	60%	0
ITCLA0-M00 Online Assessment	04-08-2022	10-08-2022	64%	1
ITCLA0-M00 Practical Assessment 1	10-08-2022	17-08-2022	61%	0
ITCLA0-M00 Practical Assessment 2	11-08-2022	24-08-2022	60%	0
Module Average: 62%				
Personal Skills Development				
ITSDA0-M00 Lecturer Assessment	23-08-2022	12-09-2022	83%	0
ITSDA0-M00 Video Submission	25-08-2022	19-10-2022	72%	0
ITSDA0-M00 Online Assessment	26-08-2022	20-10-2022	98%	0
Module Average: 89%				
Processing and Logic Concepts				
ITPCA0-M00 Lecturer Assessment	12-09-2022	21-10-2022	79%	0
ITPCA0-M00 Quiz	12-10-2022	24-10-2022	80%	0
ITPCA0-M00 Online Assessment	16-09-2022	14-12-2022	68%	2
Module Average: 72%				
Program Design				
ITPRA0-M00 Lecturer Assessment	27-10-2022	15-06-2023	72%	1
ITPRA0-M00 Quiz	31-10-2022	25-07-2023	90%	1
ITPRA0-M00 Online Assessment	02-11-2022	27-07-2023	71%	0
Module Average: 75%				
IT Fundamentals				
ITIFA0-M00 Lecturer Assessment	15-11-2022	03-08-2023	75%	0
ITIFA0-M00 Online Assessment	18-11-2022	17-08-2023	88%	0
Module Average: 87%				



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Software Engineering

ITSEA0-M00 Lecturer Assessment	09-12-2022	26-10-2023	79%	0
ITSEA0-M00 Project	14-12-2022	02-11-2023	78%	0
ITSEA0-M00 Online Assessment	10-01-2023	09-11-2023	60%	0

Module Average: 67%

Database Design Concepts

ITDCA0-M00 Lecturer Assessment	23-01-2023	06-02-2024	60%	0
ITDCA0-M00 Project	27-01-2023	07-02-2024	68%	0
ITDCA0-M00 Online Assessment	31-01-2023	15-02-2024	65%	0

Module Average: 65%

Database Management (SQL Server) (elective)

ITSSA0-M00 Lecturer Assessment	22-02-2023	26-03-2024	77%	0
ITSSA0-M00 Project	01-03-2023	03-04-2024	82%	0
ITSSA0-M00 Online Assessment	03-03-2023	16-04-2024	86%	0
ITSSA0-M00 Practical Assessment	06-03-2023	07-05-2024	60%	0

Module Average: 77%

Basic C# Programming (elective)

ITECA0-M00 Lecturer Assessment	29-03-2023	16-05-2024	90%	0
ITECA0-M00 Project	11-04-2023	20-06-2024	68%	0
ITECA0-M00 Online Assessment	18-04-2023	15-07-2024	78%	1
ITECA0-M00 Practical Assessment	20-04-2023	30-07-2024	86%	1

Module Average: 80%

Advanced C# Programming

ITHCA0-M00 Lecturer Assessment	22-05-2023	04-09-2024	73%	0
ITHCA0-M00 Project	31-05-2023	30-09-2024	85%	0
ITHCA0-M00 Online Assessment	12-07-2023	09-10-2024	87%	0
ITHCA0-M00 Practical Assessment	14-07-2023	14-10-2024	85%	0

Module Average: 85%

Basic Java Programming (elective)

ITEJA0-M00 Lecturer Assessment		29-10-2024	92%	0
ITEJA0-M00 Project		30-10-2024	89%	0
ITEJA0-M00 Online Assessment		07-11-2024	88%	0



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Basic Java Programming (elective)

ITEJA0-M00 Practical Assessment	12-11-2024	100%	0
Module Average: 93%			

Linux Operating System

ITLXA0-M00 Lecturer Assessment	25-07-2023	18-11-2024	98%	0
ITLXA0-M00 Online Assessment	27-07-2023	21-11-2024	70%	0
ITLXA0-M00 Practical Assessment	28-07-2023	02-12-2024	73%	1
Module Average: 74%				

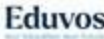
Final - Information Systems (Software Development)

ITFSA0-M00 Practical Assessment - Database	31-07-2023	05-12-2024	83%	0
ITFSA0-M00 Practical Assessment - Full Language	01-08-2023	09-12-2024	100%	0
ITFSA0-M00 Practical Assessment - Half Language	02-08-2023	11-12-2024	84%	0
Module Average: 92%				

Final Average: 79%



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E melbrend@edureps.co

28 January 2025

To whom it may concern

Re: Confirmation of completion of studies

Dear Professor/ Dr/ Sir/ Madam

This letter serves to confirm that, Mikayla Ungwyt, Student number CT 2022 X885N7, was a registered student at Edvivos (Pty) Ltd (previously known as Pearson Institute of Higher Education) and has successfully met the requirements for the Higher Certificate in Information Systems (Software Development) - Campus Full Time, (SQA ID: 102780, NQF 5).

The qualification will be officially conferred during the 2025 formal graduation convocation.

The programme was offered in English as the language of learning and teaching.

Kind Regards

Dr David Naidoo
Registrar

CA-005795-2025/05/18



Editorial/Ph.D. Researcher Journal de Recherche: Journal of Higher Education's Research with the Department of Higher Education and Training as a public higher education institution. The Higher Education Act 95 of 1997 requires the University of South Africa to be a public higher education institution. <http://www.unisa.ac.za>