



# YANGA RUBUSHE

✉ 4142599@myuwc.ac.za    ☎ +27693083184    📍 Fairdale, 7100, Cape Town    📄 Yanga Rubushe

🌀 YangaRubushe    🇿🇦 South African    ✂ YangaRubushe    🔗 Portfolio Website

## Professional Summary

I'm a BSc Computer Science and Statistics graduate from the University of the Western Cape, currently pursuing an Honours degree in Computer Science. Experienced in AR/VR development using Unity, C#, and 3ds Max, with a research focus on building a VR training simulation for electric vehicle (EV) battery pack assembly using Agile methodology. Also completed the ALX Full Stack Software Engineering Programme, earning a certificate of completion and gaining hands-on experience in back-end development, server-side programming, and version control tools. Proficient in Java, C#, Python, C & C++ , Assembly, SAS, R and SQL, with strong knowledge of data structures, algorithms, and statistical analysis. Actively seeking an entry-level role in software development where I can contribute to impactful, real-world solutions and grow as a developer.

## 🎓 EDUCATION

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02/2025 – present  
Cape Town

**BSc (Hons) Computer Science**, *University of the Western Cape*

- Funded by **AWS Bursary** 📄 , administered by **StudyTrust**

### Core Modules & Specialisations

**Immersive Technologies:** Specialising in AR/VR development using Unity, C#, and 3ds Max. Currently leading an Honours research project building a VR simulation for electric vehicle (EV) battery assembly using Agile methodology.

**Advanced Software Engineering:** Focused on Agile practices, technical documentation, iterative development, and professional presentations within team-based projects. Gained research skills, planning, organising and coordination skills.

**Artificial Intelligence:** Explored Propositional & Fuzzy Logic, Constraint Programming, Graph Neural Networks, and Reinforcement Learning for intelligent system design and decision-making.

### **Big Data Engineering:**

- Studied Big Data evolution, characteristics (5Vs), and its relationship with IoT and cloud computing.
- Designed real-world Big Data architectures using Hadoop, Spark, Scala, and HDFS.
- Gained hands-on experience with batch and stream processing, ecosystem tools, and urban/rural data-driven applications.

### **Cybersecurity:**

- Covered cryptography standards, cybersecurity risks, countermeasures, and digital forensics.
- Evaluated South African cybersecurity legislation and ethical considerations.
- Developed awareness on malware, intrusion detection, and social engineering threats.

2021 – 2024  
Cape Town

### **BSc in Computer Science**, *University of the Western Cape*

- Funded by **Sage External Bursary**  , administered by **StudyTrust**

#### **Core Modules:**

**Computer Science and Statistics:** A rigorous curriculum combining fundamental principles of computer science with advanced statistical methods, fostering analytical and problem-solving skills.

#### **Programming Languages:**

- **Java & C#:** Proficient in object-oriented programming, specializing in developing scalable, robust, and efficient applications.
- **Python:** Skilled in scripting, automation, data analysis, and machine learning, with the ability to streamline processes and enhance data-driven decision-making.
- **Assembly Language:** Competent in low-level programming, with a strong understanding of hardware-software interaction and optimization.
- **C & C++:** Experienced in system-level programming, multithreading, and developing high performance applications.
- **MySQL:** Proficient in database design, SQL queries, and relational database management, with experience in optimizing data storage and retrieval.

#### **Key Concepts:**

- **Data Structures & Algorithm:** Comprehensive understanding of algorithms, data organization, efficient storage, and retrieval methods to optimize performance.
- **Object-Oriented Programming (OOP):** Mastery of OOP principles, including modularity, abstraction, encapsulation, inheritance, and code reusability for scalable software development.
- **SAS & R for Statistics:** Expertise in statistical computing, data visualization, and performing advanced statistical analysis for data-driven insights.


10/2023 – 10/2024  
Online


### **Full Stack Software Engineering**, *ALX*

#### **Foundation Phase (9 months):**

- **Programming Skills:** Developed proficiency in JavaScript, Python, and Shell scripting.
- **Version Control:** Mastered Git and GitHub for source code management.
- **Web Development:** Gained skills in HTML, CSS, and building responsive websites.
- **Software Engineering Fundamentals:** Focused on algorithms, data structures, and software design principles.

#### **Specialization Phase (3 months):**

- **Back-End Development:** Advanced training in server-side programming, databases, RESTful APIs, and frameworks like Node.js and Django.
- **Collaborative Projects:** Worked on real-world projects to apply learned skills, with repositories available on my GitHub
- **Portfolio Highlight:** **NexGen E-Learning** 

My final portfolio project was voted the **Best Project**  in my cohort, recognising its innovation and real-world impact.

SKILLS

Python	● ● ● ● ●	Java	● ● ● ● ●
C#	● ● ● ● ●	C & C++	● ● ● ● ●
HTML/CSS	● ● ● ● ●	Typescript	● ● ● ● ●
JavaScript	● ● ● ● ●	GitHub	● ● ● ● ●
React	● ● ● ● ●	GIT	● ● ● ● ●
SQL	● ● ● ● ●	R	● ● ● ● ●
SAS	● ● ● ● ●	3ds Max	● ● ● ● ●
Unity	● ● ● ● ●	AWS	● ● ● ● ●

LANGUAGES

English	● ● ● ● ●	IsiXhosa	● ● ● ● ●
IsiZulu	● ● ● ● ●		

INTERESTS

- Chess
- Coding
- Gaming