YANGA NXANGASHE

Software Developer

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📍 Cape Town (South Africa)

in https://www.linkedin.com/in/yanga-nxangashe/

🐙 https://github.com/BRUCEMACTY

PROFESSIONAL PROFILE

I'm a Final Year Computer Science and Engineering student whose ready to embark on a professional career in Software Development. My passion for technology has driven me to become a software enthusiast, constantly seeking opportunities to learn and grow.

I've honed a skill of performing well underpressure through active participation in hackathons. These experiences have not only strengthened my technical abilities but have also taught me valuable lessons about managing stress , time and delivering results in a challenging and fast paced environment.

What sets me apart is not just my technical expertise, but my genuine love for developing innovative and elegant solutions.

⚙ TECHNICAL EXPERIENCE & COMPETENCIES

- Proficient in using Google Cloud Services, specifically with MYSQL Database
- Knowledgeable in Object-Oriented Programming using Java and C#, with experience in JavaFX and .NET
- Skilled in Python and various Machine Learning Libraries such as Torch, Numpy and Matplotlib
- Solid understanding of software design principles and practices
- Experienced in conducting JUnit testing
- Proficient in Git & GitHub Version Control
- Familiar with Agile development life cycle
- Docker containers
- STM32 Embedded Systems Programming

🎓 EDUCATION

Bachelor of Computer Scirence and Computer Engineering

University of Cape Town

2020 - 2023

GPA STATUS :
2021 : 77,83 %
2022 : 67,03 %

High School

Manzomthomthombo Senior Secondary School

Merit Award : School's Top Achiver

💼 VOLUNTEER

Computer Science | Tutor
UCT Residence : Leo Marquard
- Helped students understand computer science theories and algorithms
- Python Programming
- Object Oriented Programming

💼 WORK EXPERIENCE & PROJECTS

Computer Science || Tutor

2023 – PRESENT

University of Capetown
- Code review and marking
- Help students understand Parallel Programming , data structures , Low level Programming (Assembly) and Mobile Development Principles

DISCOVERY GRADHACK HACKATHON

2023 – Duration : 3 days

Challenge :
Find a way to enhance Discovery Vitality.

Solution :
To enhance the security and transparency of Discovery vitality customer points by using a decentralized blockchain.

Development Summary and Responsibilities :
- Implemented a blockChain system from scratch using Python , Flask Library , JavaScript and HTML.
- I developed a cloud-based database using Google cloud services, SQL to mimic how the company would store user data
- Backend : Ensured data security and integrity through cryptographic techniques and consensus algorithms.
- UI Design(HTML and CSS) using Bootstrap and intergration

MINIBAR OFFLINE : Grammatical Framework

2023 – Duration : 2 months

Challenge :
Develop a natural language processing application using a Grammatical Framework

Development Summary and Responsibilities :
- JavaFX deskop application
- Implemented an algorithm to Cache user sentence and predict the next word based on history
- Test Driven Development environment (Agile)
- Project Planning and documentantion

Others
- Image Classification using Neural Networks
- TCP Client Server Communication
- Embedded Systems Development : STM32 using HAL LIBRARIES