

# CHIGBU JOSHUA

Lagos, Nigeria | [chigbujoshua@yahoo.com](mailto:chigbujoshua@yahoo.com) | +234 706 444 9563

Portfolio: <https://chxgbx.cloud/>

LinkedIn: <https://linkedin.com/in/chigbujoshua> | GitHub: <https://github.com/yungryce>

---

## SUMMARY

Resourceful Software and Systems Engineer with a solid foundation in Linux, C programming, Command Line scripting, and Data structures. Adept at problem-solving with a proven track record of optimizing processes while ensuring quality. Passionate about continuous improvement and development.

---

## STACKS

- Linux | C Language | Shell script
  - Python | Django
  - PHP | Laravel
  - HTML | CSS | JavaScript
  - SQL
- 

## PROJECTS

### Shell Program (Linux Bash Clone)

- Github Repo: [https://github.com/yungryce/simple\\_shell](https://github.com/yungryce/simple_shell)
- Developed a shell program, emulating the sh/bash shell on Linux OS.
- Implemented built-in commands: CD, ENV, HELP, and EXIT.
- Capable of interactive command prompt and non-interactive execution through a Pipe.
- Efficiently tokenize user input, observe quoting rules, and intelligently parses and executes commands using system fork and process id.

### Monty Byte Code Interpreter for Stack and Queue System

- Github Repo: <https://github.com/yungryce/monty>
- Implemented a system interpreting Monty Byte codes, useful for arranging process calls.
- Supports Last In First Out (LIFO), First In First Out (FIFO), First In Last Out (FILO), and Last In Last Out (LILO) implementations.
- Beneficial for function calls, recursions, and programs requiring ordered process handling.

### Command Line Management System for AirBnB

- Github Repo: [https://github.com/yungryce/AirBnB\\_clone/](https://github.com/yungryce/AirBnB_clone/)
- Developed an admin application management system facilitating command line control of property classes (User, City, Place, State, Amenity, and Reviews).
- Ideal for navigating diverse aspects of the application and debugging.

### Quickteller Business API Payment Service

- **Github Repo:** [https://github.com/yungryce/php\\_app](https://github.com/yungryce/php_app)
- In progress: Developing a payment service utilizing Quickteller Business API for card transactions, cash transfers, online payments, and airtime/data recharge.
- Implemented a secure authentication system to safeguard user card details that ensure compliance with security best practices.
- Engineered a robust User Login authentication system and session management for enhanced security.

#### **Django Blog App**

- **Github Repo:** <https://github.com/yungryce/blog>
  - Created a simple blog app leveraging Django's extensive tools.
- 

## **WORK EXPERIENCE**

### **ALX Africa**

Software Engineering Intern | July 2023 - Present

### **GZ INDUSTRIES**

Front End Lead, Production Technician | Dec 2020 - July 2023

- Managed line operations, ensuring seamless coordination between front-end and back-end machines.
- Oversaw daily operations of Front End machines in Beverage Can Manufacturing.
- Performed machine overhauls for various can sizes.
- Implemented line monitoring strategies for continuous improvement.

### **BISWAL LIMITED**

Team Lead, Maintenance Operations | Nov 2019 – July 2020

- Managed power equipment at 35 telecom sites, achieving a 99.5% power availability index.
  - Led maintenance and management of assets across 35 locations.
- 

## **EDUCATION**

B.Eng. | Mechanical Engineering (CGPA: 4.07/5)

2012 – 2018

Michael Okpara University of Agriculture, Umudike

---

## **ADDITIONAL HIGHLIGHTS**

- Proven track record in optimizing processes and ensuring quality.
  - Strong problem-solving skills demonstrated in diverse software engineering projects.
  - Continuous learner with a passion for development and improvement.
  - Actively contribute to open-source projects on GitHub.
-