

# JOSEPH CHIDUBEM OKAFOR

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## PROFESSIONAL SUMMARY

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Software Engineer with 2+ years of experience in full-stack development and cloud-native solutions. Proficient in Python, C, Django, JavaScript, and RESTful APIs. Skilled in deploying scalable applications to AWS and building CI/CD pipelines using GitHub Actions and Docker. Improved deployment time by 40% and reduced page load time by 30% through performance tuning and code optimization.

## EDUCATION

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### Software Engineering Academy (Backend Specialization) – ALX Africa

August 2024 – April 2025

- Specialization: Algorithms and Backend Development
- Key Coursework: Data Structures, Algorithms, Software Design Patterns, Python

### Diploma in Software Engineering – ALX Africa / Holberton School

January 2023 – December 2023

### Bachelor of Engineering in Electronic Engineering – University of Nigeria, Nsukka

September 2017 – November 2022

- Degree Classification: Second Class Upper Division

## CORE COMPETENCIES

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|--------------------------------------|------------------------------------|-----------------------|
| • Full-Stack Development (Python, C) | • RESTful API Design & Integration | • DevOps & CI/CD      |
| • Database Management (MySQL)        | • Version Control: Git, GitHub     | • Agile Methodologies |
| • Test-Driven Development (TDD)      | • Software Design Patterns         | • Code Optimization   |

## WORK EXPERIENCE

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### Software Engineer – Chemical and Allied Products (CAP)

April 2024 – March 2025

- Built microservices with Django and Docker, boosting performance by 30%.
- Automated deployments via GitHub Actions, reducing release time by 40%.
- Partnered with cross-functional teams to deliver business-aligned systems, enhancing UX by 20%.

### Junior Python Developer (Remote) – Pacuss Global Ventures

February 2023 – December 2023

- Built and maintained web applications using Python, Django, and JavaScript, reducing deployment time by 20%.
- Collaborated with teams to launch new features, improving user experience by 15%.
- Developed RESTful APIs and integrated third-party services, boosting system efficiency by 30%.
- Optimized performance and infrastructure, cutting server costs by 25%.

## CERTIFICATIONS

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- **Back-End Web Development (ProDev)** – *ALX Africa*, 2025
- **Software Development Certification** – *3MTT*, 2024
- **AI for Creatives** – *ALX Africa*, 2024
- **Career Essentials in Generative AI** – *Microsoft*, 2024
- **Certified Virtual Assistant** – *ALX Africa*, 2024
- **IBM Applied DevOps Engineering Professional Certificate** – *IBM*, 2023

## PROJECTS

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### Airbnb Clone (*In Progress*) – [GitHub Repository](#)

- **Technologies:** Python, Typescript, JavaScript, MongoDB, MySQL
- **Overview:** Scalable and secure accommodation booking platform.
- **Highlights:** Integrated payment gateway and implemented data encryption for user data protection.

### Care Cycle – [GitHub Repository](#)

- **Technologies:** Django, MySQL, JavaScript
- **Overview:** A health management web app designed for scheduling, tracking, and coordinating patient care activities.
- **Highlights:** Implemented appointment scheduling, patient data tracking, and role-based access control to ensure data security and usability across user types.

### Simple Shell (ALX SE Program Capstone) – [GitHub Repository](#)

- **Technologies:** C, Linux System Calls, GCC, Makefile.
- **Overview:** A custom Unix command-line interpreter built from scratch as part of the ALX Software Engineering program.
- **Highlights:**
  - Implemented execution of built-in and external commands using fork, exec, and wait system calls.
  - Handled interactive and non-interactive modes, error messaging, and environment variables.
  - Developed custom memory management and command parsing logic using low-level I/O.

## PROFESSIONAL AFFILIATIONS

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- **Graduate Member**, Nigerian Society of Engineers (NSE).