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# Ebuka Maduekwe

## Software Engineer

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I am a detail oriented and innovative software engineer who always tries to achieve excellence, even in conflicting priorities, while at the same time making sure the team attains excellence. I equally attempt new experiences courageously, making sure to respect the people and environment I work in, and exhibit a great understanding and respect for individual differences.

### Core Competencies

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- Team Leadership
- Research and Analysis
- Resilience
- Detailed
- Strategic Planning
- Communication
- Focused
- Trustworthy
- Teamwork
- Decision Making
- Creative
- Respect

### Professional Experience

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Sept 2021- present

#### Software Engineer

##### *Microsoft*

I work as a software engineer in the windows devices and experience (WDX) team to empower every person and every organisation on the planet to achieve more.

##### **key responsibilities:**

- Design and architecture
- Maintenance and improvements
- Engineering and development
- Testing
- Support
- Documentation

##### **Tech stack:**

- C++, IDL
- XAML
- WINRT
- GVFS, git

Jan 2019-Sept 2021

#### Software Engineer

##### *Interswitch Group*

I worked as a backend engineer in the payment processing team to inspire Africa to greatness through innovation, value creation, and excellence.

##### **key responsibilities:**

- Systems design and architecture
- Systems engineering and development
- Systems documentation

**Tech stack:**

- Spring Boot, Spring webflux, Vertx
- ACI Postilion (ISO8583)
- MSSQL, Elastic Search, Redis
- Git
- Confluence
- Postman
- Distributed architecture
- Docker, Kubernetes
- Kafka, RabbitMQ
- Jenkins, Spinnaker
- Jira

**Key Achievements:**

- IPG payment link (2019) – I added the payment link feature to the interswitch payment gateway
- ACI Postilion ISO 8583 Drivers (2019 – present) – I worked on a good number of drivers and interfaces for the ACI postilion for both interswitch’s FEPs (front end processors) and the FEPs in the banks, maintaining the already existing ones and built a good number of new ones.
- Prepaid card service (2019) – A portal that allows banks to manage how they request for prepaid cards. I started the service, but handed it over after the MVP was built.
- ISW core (2019) – The authorisation server used in interswitch. I added some features to the server.
- Smart card process client (2019 - 2020) – A micro service that facilitates the communication between third parties and the interswitch’s service that prepares the EMV data for virtual cards embossing.
- DCC project (2019) – A series of micro services that helps in real time currency conversion.
- Fintech project (2020 - present) – A series of micro services that facilitates transaction processing for non-bank financial institutions.
- FBN virtual card processor (2020) – A micro service that allows FBN process card based transactions with their mobile money client (CEVA).
- UBA companion card processor (2020) – A micro service that allows UBA to Process card based transactions with their mobile money client (TechFin).
- Virtual card middleware (2020 - present) – A micro service that allows banks to easily issue out and manage virtual cards.
- ISW CMS (2020 – 2021) – Interswitch’s card management system

- Agency cashout solution (2021 – present) – A series of micro services that allows for the processing of agency cash out transactions.

May 2018-May 2019

## **Full Stack Developer**

### *Shopping Internet Services*

I worked as a full stack developer to help people/businesses achieve their goals by providing fun ways for innovators, entrepreneurs and consumers to meet and interact on a global scale.

#### **key responsibilities:**

- Systems design and architecture
- Systems engineering and development
- Translation of the UI/UX wireframes to visual elements
- Some DevOps

#### **Tech stack:**

- Spring Boot, Thymeleaf, Ionic
- MySQL, kibana
- Git
- Postman
- Distributed architecture
- Docker, Kubernetes
- RabbitMQ
- CircleCI
- MangoApps

#### **Key Achievements:**

- Salesnipr dashboard (2018) – A landing page to on-board clients to the ROAM service.
- Stanbic SIPML Dashboard (2018) – A dashboard where stanbic pensions can manage outputs from their agents.
- Stanbic SIAML Dashboard (2018) – A dashboard where stanbic assets management can manage outputs from their agents.
- ROAMV2 service (2018 – 2019) – ROAM (Remote Access and Monitoring). A service used for managing outputs from agents.
- Lafarge dashboard (v1 and v2) (2018 – 2019) – A dashboard where Lafarge cement can manage their inventories and their several distribution lines.
- Lafarge service (v1 and v2) (2018 – 2019) – A service for Lafarge cement to manage their inventories and their several distribution lines.

June 2016-May 2021

## **Full Stack Developer**

### *Freelance*

I work as a full stack developer to help people find solutions to their problems through technology.

#### **key responsibilities:**

- Systems design and architecture
- Systems engineering and development

- Systems documentation
- Translation of UI/UX wireframes to visual elements
- DevOps

**Tech stack:**

- Spring Boot, Nodejs, Laravel, React, Ionic, Wordpress
- MySQL, MongoDB, Redis
- Git
- Postman
- Distributed architecture
- Docker
- Jenkins
- Trello

**Key achievements:**

- SIWES system (2016 – 2017) – A monolithic web app that manages the Nigerian system of industrial training for university students (SIWES).
- Police incident report system (2016 – 2017) – A monolithic web app that can be used for incident reports to the police and also the police can manage incident reports.
- File encryption and decryption application (2017) – A windows app that symmetrically encrypts a file while using a specific file as the private key.
- E-voting system (2017) – A web app for electronic voting.
- Numerical analysis application (2017) – A windows app that does numerical analysis based on the Runge Kutta method.
- Freemouthed blog mobile app (2018 – 2019) – A mobile app for freemouthed blog
- Slim (2018 – 2019) – A micro service and web app for shrinking url.
- Plan (2018 – 2019) – A micro service that helps create and manage budgets.
- OAuth server (blocking and non-blocking) (2018/2021) – A synchronous and an asynchronous Oauth server for user authentication.
- Smart-trade (2020 – present) – A service for managing the process of trading for a seller and making trading easier for a customer.
- Premier exchange landing page (2021) – A react landing page app for a crypto exchange broker.
- Climedo-test (2021) – A micro service for managing tabs to be displayed by a front end.

June 2016-Nov 2016

### **Intern**

*Scientific Equipment Development Institute, Enugu*

As an intern I participated in a lot of things that are both related and not related to my profession. The program was organised to make interns go through 3 different departments within their stay, some of the departments were more physical than others. I was focused on obtaining as much knowledge as I can. Some of the tools I used here were; Proteus, MIT app inventor, routers, wire crimp device, A.C electric motors, digital multimeters, transformers etc.

#### **Key achievements:**

- Designed and implemented an algorithm that determines when a staff is due for retirement.
- Mentored a few colleagues on programming.
- Detected and fixed issues with faulty computer systems.
- Designed and built a 3kva transformer.
- Designed and built an inverter printed circuit board.
- Detected and fixed issues with some industrial machines

## **Education**

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Sep 2012-Dec 2017

### **Bachelor of Technology (B.Tech)**

*Federal University of Technology, Owerri (FUTO)*

First class honours (4.59/5.0 CGPA) in **Computer Science**

Sep 2005-Aug 2011

### **Senior Secondary Certificate Examination (SSCE)**

*College of the Immaculate Conception, Uwani, Enugu.*

## **Achievement and Awards**

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2018

### **Winner**

*CYSEC hackathon, NYSC Lagos camp*

2018

### **Best Graduating Student**

*Computer Science Department (FUTO), class of 2017*

2015-2017

### **ICT Director**

*Nigeria Association of Computer Science Students (NACOSS), FUTO chapter*

2014

### **Winner**

*NACOSS FUTO programming hackathon*

## Certifications

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| 2020 | <ul style="list-style-type: none"><li>● Tranzaxis: System configuration and operation basics</li></ul>   |
| 2019 | <ul style="list-style-type: none"><li>● Lean Six Sigma (yellow belt)</li><li>● Scaled agile framework (SAFe)</li></ul>                                   |
| 2017 | <ul style="list-style-type: none"><li>● Java (Sololearn)</li><li>● Javascript (Sololearn)</li><li>● HTML (Sololearn)</li><li>● CSS (Sololearn)</li></ul> |
| 2016 | <ul style="list-style-type: none"><li>MySQL (Sololearn)</li><li>● C# (Sololearn)</li><li>● PHP (Sololearn)</li></ul>                                     |

## References

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Provided upon request.