Emmanuel Adediji

Eager to apply academic and professional background towards launching a successful career as a programmer, Software Developer and Engineer, Geo-information Specialist with an employer offering opportunities for professional development in exchange for demonstrated drive and commitment to superior job performance.

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Education

School: Federal University of Technology, Akure.
Course: Surveying and Geoinformatics
11/2011 - 10/2016

School: Prosoft Computer Institute(Oyemekun Study Centre)
Course: Software Education and Development.
12/2014 - 10/2016

School: Harvard University/MIT Online Learning Initiative(edx)
Course: Computer and Embedded Software technologies.
09/2015 - 11/2015

Work Experiences

FUTA SPACE CLUB
FUTA, Akure.
03/2013 - 07/2015
Tasks/Achievements

● Embedded Programming of Robotic Space balloon

Usage of Python and RaspberryPI framework

GEOMATICS NIGERIA LIMITED
BODIJA, IBADAN
06/2014 - 12/2014
A geospatial company dealing with digital mapping, geospatial analysis & solutions development, automation & hydrology.

Responsibility: Geo-Spatial Developer

● Map compilation and digitizing (Python for automation).

● GIS computations, analysis and automation using MATLAB and Java.

● Google Map and Open Street Map API interaction.

● LeafletJS, CartoJS and Geo-Fencing Library Integration.

AGBOLAJE GEOSPATIAL LTD
AKURE, ONDO STATE
05/2016 - 04/2017
A geoinformatics firm implementing surveying, GPS, and navigation technologies.
Responsibility: Contract Geo-Spatial Developer

Skills & Competences

Skill					
JAVA	●	●	●	●	●
GROOVY	●	●	●	●	●
SCALA	●	●	●	●	○
KOTLIN	●	●	●	○	○
PHP	●	●	●	○	○
PYTHON	●	●	●	○	○
JAVASCRIPT	●	●	●	●	○
MATLAB	●	●	●	●	●
WEB SERVICES/REST	●	●	●	○	○
G.I.S./ R.S.	●	●	●	●	○
GPS/GNSS	●	●	●	●	○

Experiences(cont'd)

● Bulk-conversion of geo-spatial data obtained in the old national grid coordinate system to the modern geodetic system using geodetic algorithms.
● Java and Python implementation and deployment of the said system.

COMMUNITY SECONDARY SCHOOL,
ODORI IKONO, MBIABONG, AKWA-IBOM
12/2017 - 11/2018
Secondary School in a community during NYSC
Responsibility: Instructor and Teacher

● Teaching of Geography, Physics, Data Processing and Computer Studies

IQMEDIA LTD – www.iqmediastudios.com
AGBOWO, IBADAN
01/2019 - 05/2019
A media and graphics company focused on improving businesses through streamlined high graphics designs and media outflow
Responsibility: Software/UI(Desktop) Developer

● Design and development of in-house software
● Java and Java FX

FREELANCE PROGRAMMING INSTRUCTOR
University/Polytechnic of Ibadan
Responsibility: Python/Java Instructor

● Teaching and Demonstration of Java and Python APIs to students, implementers & enthusiasts alike.

Experiences(cont'd)

PROJECTS NIGERIA –

projectsnigeria.com

A startup focusing on consultancy services for final year student project works.

Responsibility: Facilitator / Programmer

- JVM programming for research works.
- Report writing and data analysis.

ABULAR INTERNET SERVICES LTD –

abular.com

11/2018 - 08/2019

A supply chain and transportation startup focusing on eliminating the barrier involved in getting anything anywhere and at any time.

Responsibility: Programmer (Part time)

- Automating tasks using Groovy on the backend
- Dart/Flutter for mobile app development (collaboration)

AKINWALE INVESTMENT AGENCY

A financial startup that invests and manages funds through diversified portfolio – FOREX / Binary Trading

- Part-time IT integrations personnel
- FOREX speculator

PLEDRE E-LEARNING LTD – www.pledre.com

09/2019 – Present (contract)

An e-learning company seamlessly connecting instructors to their students in a fast and easy manner.

TECHNICAL SKILLSETS:

Polyglot JVM programming in Java, Groovy, Scala and Kotlin:

- Networking – Socket, InetAddress, TCP/IP, UDP, Multicasting, etc.

- I/O – File Processing, Input Stream, Output Stream, etc.

- Cryptography – Symmetric (Secret Key), Asymmetric (Keypair), Signature, Digest, Padding, Protection mode, Encoding and Decoding, etc.

- Object Orientation – classes, interfaces, traits, data classes, closures, lambda

- Data Structures – Array, Map, List, Stack (LIFO), Queue (FIFO), etc.

- GUI – Swing, JavaFX

Java Executors, Kotlin co-routine, Groovy GPARS & Scala AKKA for concurrent, parallel and asynchronous systems:

- Futures and Executors Pool.

- Agents and Atomic tokens.

- Promises and tasks.

- Actors, Async/Await, etc.

Testing viz:

- Spock

- JUnit

Experiences(cont'd)

- Security and Cryptography for cloud resources (in an AWS environment)
- Frontend JS obfuscation and security implementation

Personal Projects

Geo-spatial DATA adjustment using MATLAB programming language (04/2016 - 08/2016)

- Development of MATLAB computational tool for engineering levelling least squares adjustment of geo-spatial data.
- Least Square algorithm implementation using observation equation.
- MATLAB powerful matrix utility.

Geospatial DATA adjustment (Mobile version) (06/2016 - 08/2016)

- Using web languages(html/css/javaScript) to implement the least square algorithm.
- Using the phonegap (apache cordova) library to access mobile devices' functionality.
- Using jquery mobile to enhance the UI and UX.

Development of fluid flow Application in Engineering Instrument using java and groovy (05/2015 - 06/2016)

- Fluid flow mechanics analysis in engineering pipes.
- Algorithm implementation using java and some groovy scripting.

SKILLSETS (cont'd)

Modelling Tools

- UML 2.0

Version Control viz:

- git (Intermediate – push, pull, merge, commit)

Web and Enterprise Frameworks viz:

- SparkJava (Java Microframework)

- Play Framework (Intermediate – CRUD)

- Grails Framework (Intermediate)

ORM technology viz:

- JPA

- Hibernate

- GORM

- E-Bean

- Eloquent ORM

Databases and Persistence viz:

- Postgres SQL

- Maria DB

- Mongo DB

- Neo4J

- Cassandra

Design Patterns viz:

- Object Oriented Programming
- Functional Patterns
- Factory Patterns
- Builder
- Design by Contract (Groovy's GContract)
- Observer Patterns

Research Interest viz:

- Distributed Computing (Java RMI, Java EE WS, etc.)
- Digital security, cryptography and steganography
- Blockchain and Crypto-currency
- Cloud Resource Optimization
- Concurrency and (A)synchronicity
- Micro-Services and Serverless Architecture
- Data and Database Analytics and Science
- Video and Image Processing
- Server Load Balancing
- Geoinformatics/G.I.S.

CERTIFICATES:

- **B-TECH (SURVEYING & GEOINFORMATICS)**
A Bachelor of Technology in Surveying, Geo-spatial technologies, Remote Sensing and GIS, Hydrography, Bathymetry, GPS/GNSS, Geodesy & Earth-based metrology

- **Diploma (Software Education and Development)**
A Diploma in Software modelling, design, development, implementation, deployment, maintenance and pedagogy.

- **Online Learning Initiative Award (edx)**
Organized by MIT and Harvard, the online learning platform (edx.org) organizes top notch technology programs for students all over the world.

- **IPMA certificate of completion**
The FUTA chapter of IPMA organizes training in project management practices, software and methodology. Training is based on MS-project and PRINCE2.

Build Tools and Dependency Managers viz:

- Maven (run, build, compile, pom.xml constructs)
- Gradle (Beginner)
- Grape (Using Ivy)
- NPM

- **(IN-VIEW)**
OCJP (Oracle Certified JAVA programmer)
Professional Certification in JAVA and its technologies.

- **Oracle Certified Database administrator**
Professional Certification in Oracle Database Administration

STRENGTHS:

Skill	Rating
COMMUNICATION	●●●●●
LEADERSHIP	●●●●○
TEAMWORK	●●●●●
DECISION MAKING	●●●●○
WORK ETHICS	●●●●●
DISCIPLINE	●●●●○
FAST LEARNING	●●●●●
WORKING UNDER STRESS	●●●○○
REPORT WRITING	●●●●●

INTERESTS AND HOBBIES

- *Seeing Sci-Fi Movies*
- *Learning new programming languages and frameworks*
- *Travelling & Meeting People*
- *Sports*
- *FOREX and Binary Trading*
- *Electronic Gadgets like smart phones, PCs & Cars*