**Dr Feyiseye O Fadeni**

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**Skill Profile**

**IT related skills:**

* **Software Programming**

PHP (5 years), PHP Laravel MVC Framework (5 years), MySQL (5 years), Web Design (HTML, JavaScript, Ajax, CSS, Bootstrap) (5 years), Java (4 years), React Native and Redux (2 years), Android (2 years), Node JS with Express (1 year), Python (1 years), Mongo DB (6 months)

* **Additional Skills**

Microsoft SQL, Oracle SQL, SQLite, FireBase DB (No SQL), Flask Python, RDS (AWS), S3 Bucket (AWS), EBS (AWS), iOS (Swift), C#, NLP (Text Extraction, NER, POS Tagging etc), Machine Learning Modules

* **Databases:**
  + Database project and design.
  + Experience in Data Modelling (Logical and Physical Design of Databases)
  + Excellent back-end skills in creating SQL objects like Tables, Stored Procedures, Views, Indexes, Triggers.
  + Experience in Dimensional Modelling, ER Modelling.
  + PHP MyAdmin for MySQL development, user management and backup/recovery technique.
  + Administration of Oracle Database 11g: installation, maintenance, performance monitoring, database security, user management and backup/recovery technique.
  + Worked with NoSQL database for processing large dataset and document retrieval on Firebase and MongoDB.
* **System administration:** Linux, Mac and Windows.
* **Source Control:** Git
* **Cloud Systems:** Managing and configuring Amazon Web Service (AWS) Linux and Windows instances. Manage shared control panel on Go Daddy and Blue Host, AWS RDS, S3 Bucket, Route 53 Configuration.
* **Software engineering:** UML, design patterns, OO design, testing, re-factoring and regression test.
* **Software Testing**
* Writing and Performing Unit Tests
* Integration and Functional tests.
* **Microsoft Office:** Word, Excel, PowerPoint.
* **System Security:** Penetration testing for systems vulnerability, bases of TCP/IP networking security and protocols analysing and securing. Performer of network security and management and Analysis.
* **Applying Methodologies:** Good use of working with Agile (Scrum) and Model Driven Architecture (MDA). Also applied Information Systems (IS) Research Methodology for research projects.
* **High Performance Computing:** Setting up and managing of computer clusters and programming in parallel environment (MPI/MPICH).
* **Big Data and Machine Learning**
* Data Forecasting, House Price Prediction and Future prediction of stock prices/GDP using various machine learning model e.g. Support Vector Machine, Linear Regression, Neural Network. (Java and Python)
* Stock Data Pre-processing using technical indicators (Smooth moving average, Exponential Moving Averages, Simple Moving Averages)

**Communication:**

* Able to communicate effectively verbally and written on both technical and non-technical levels.
* Currently working in a global and multicultural environment where effective communication skills is mandatory for foster company growth.

**Problem Solving:**

* Developed strong analytical and diagnostic skills during my educational journey which has greatly and positively contributed to my continuous and goal driven approach in the industry (both practically and theoretically). Working tirelessly to find/create solutions that meet customer’s and stakeholders demands.

**Teamwork:**

* Involved in several group systems and software project at the university where success depends on motivation and management of one another.
* Experience of working within teams during my various working experiences.
* Know how to promote team spirit.

**Education & Qualifications and Awards**

* **PhD** **Artificial Intelligence (Natural Language Processing)**

**University**: University of Huddersfield, United Kingdom.

**Period**: Sept 2015 – Nov 2019.

**Thesis**: A method for representing knowledge and improving answer prediction in question and answer domain.

**Contributions**: Novel algorithm that achieves results beyond (8% improvement) current state-of-the-art. The algorithm utilises dependency methods for answer retrieval to get its results. New method of representing knowledge to overcome the limitations of using current approaches. New method of representing knowledge to overcome the limitations of using current approaches

* **MSC Advanced Computer Science (DISTINCTION)**

**University**: University of Huddersfield, United Kingdom.

**Period**: Jan 2014 – Jan 2015

* **BSc Physics with Electronics**

**University**: Redeemers University, Nigeria

**Period**: Sept 2009 – Sept 2013

**AWARDS**

* **Winner of Best MSc Computing and Informatics Final Year Project**, 2014 – 2015 session, University of Huddersfield. Final year project topic was developing of a modelling tool for generative design patterns.

**CERTIFICATIONS**

* Oracle certified Java SE professional (OCJP).
* Certified Oracle database administrator (OCA).
* Certified Oracle database expert (OCE).
* EC-COUNCIL Certified Ethical Hacker (CEH).
* NIIT certified Java Web developer.
* Teaching Assistant Preparation Program (TAPP) from University of Huddersfield.

**Recent Project/Experiments**

* **Drap It - 2019**

Is a simple and functional (non-fancy) AI powered tool running on tesseract (Machine Learning - OCR) to extract text from Images to analysable data.

Link <http://13.59.167.220/> (email: [tester1@y.com](mailto:tester1@y.com) password: Aa123456)

* **Tech Stack**

1. OS: Ubuntu 16.04 - Running on AWS Instance
2. Webservers: (Nginx and Apache)
3. Programming Languages: Nodejs (Machine Learning - tesseract, Keyword extraction and Name Entity Recognition), Laravel (PHP 7.3)
4. Databases: Mongo DB for unstructured image text, MySQL for structured data (managing user authentication, db access levels etc)
5. Front End: Bootstrap, CSS, HTML, JavaScript

* **41Know - 2019**

Uses smart search technique to detect spam massage similarities with a growing dataset. Link <https://41know.com/>

* **Tech Stack**

1. AWS Instance
2. SSL (Lets Encrypt)
3. LAMP Stack
4. Laravel (PHP 7.3)
5. Front End: Bootstrap, CSS, HTML, JavaScript

**WORK EXPERIENCE**

**ERICSSON Feb 2019 – Feb 2020**

Full Stack Developer and Data Engineer

This role has required a variety of languages but mostly PHP, JavaScript, MySQL, Excel. Mainly, my team and I control the migration of legacy web pages or create new solutions; also cleaning and migrating billions of data records to Ericsson current state-of-the-art cloud servers with modern day programming approach. (OOP being a main one).

Our team was tasked with the process of automating the daily processes of all UK Field Engineers who managed the telecommunication mast in the country. One of my main projects was to automate the process for the nationwide site theft and vandalism with real time reporting which is used by the police. Another was to automate/escalation emergency services response (ESR) issues across the telecommunication network. Amongst the many task carried out in Ericsson, we automated training and accreditation process to ensure that field engineers and staffs were fully in compliance with the necessary training standards. We also automated the process of re-ordering/returning mechanical parts which significantly reduced errors.

key task

* Discussing with stakeholders and requirement gathering.
* Analysing business cases and converting them to software use cases and vice versa to feedback to stake holders.
* Create cloud-based solutions (APIs, Micro systems) to synchronise services and tasks
* Migrating legacy codes to new cloud architecture and using modern day programming approach OOP
* Code review and optimisation to ensure standard practice and security compliance
* Data pre-processing using (Excel, Panda – Python)
* Migration of data to new infrastructure and backing up of database to avoid data loss or corruption during migration process.
* Performing Project reviews with UK and Global teams in an Agile Environment
* Acceptance testing and planning staged roll outs of software solutions within the country to properly manage risk, errors or bugs.
* Creating easy to use online business tools (HTML, CSS, JavaScript, PHP, MYSQL) to bridge the gap between field engineers and office staffs improving productivity. This also included real time graphical reporting for managers to easy manage and track progress of their team members and engineers.
* Using datapoint and mathematically modules in site theft data to identify trends and behaviour of thefts (PHP, Node, Python) and using this to generate real time report for crime agencies and third-party partners (All major UK telecom providers)

**UK SHIDAI June 2018 – Feb 2019**

Web Developer

This role has involved using PHP (Laravel) to develop, test and maintain a commercial e commerce web application ([www.ukuoffer.co.uk](http://www.ukuoffer.co.uk/)). This is a fast-paced environment where requirements are always changing and it involves being dynamic, working under immense pressure and satisfying the business needs at the end of the day. This role involves having a good knowledge of JavaScript, PHP, AJAX.

Some of the key areas have been

* Using Behaviour Driven Development
* Working with Scrum methodology
* Unit testing
* Functionality Testing.
* Making the system scalable and developing easily extensible systems.

**Freelancer February 2017 - May 2018**

Took a step back to focus on my PhD degree in Artificial Intelligence and Robotics. While doing the research, I still engaged actively in self-development by being a freelancer undertaking projects to suite customer demands.

* Designing User Front End (UI) and Upgrading User Experience (UX) in HTML, CSS, Bootstrap, JavaScript.
* Managing and creating online stores using CMS.
* Teaching on SuperProf in IOS (Swift), Android Development, Java, Flask, Physic and Mathematics.
* Used Flask, Laravel as major MVC frameworks for complex web applications with for easier extension.
* Working with SQL queries and using ORM and Entities within source code for smooth migration to other databases if needed.
* Building both CMD or User Friendly applications.
* Writing and documentation of software manuals and usage.

**Top-notch IT Solutions January 2015 - October 2016**

Software Developer

* Maintaining and extending object oriented code base mostly in PHP, Java and C# while working in a team on commercial applications.
* Developing request and response enabled restful web services for mobile application consumptions. In some occasions, SOAP based web services were developed and maintained for more structured architectures.
* Using data filtering with machine learning algorithms in Big Data. Applying data analytic tools e.g. Weka to filtering noise out of data.
* Creating extensible sequence models for systems with rapid and progressive expansions.
* Software re-factoring of an application used in the aspect of Operational Research written in Java
* Part of the activities covered: writing Unit Testing Code, performing integration, functional, re-factoring and regression testing.
* Source code management and revision supported by sub-versioning system.

**University of Huddersfield Oct 22, 2015 to May 2016**

Lecturing Assistant to Dr Dave Wilson

Assisting in

* **Web and Network Services**

Service Oriented Approach

SOAP Web-Services in C# and Java (creating and consuming respectively)

Sockets Technology etc. in Java

* **Relational databases and PHP**

Teaching about the concepts of relational databases and applying them practically with MySQL database; Also, using PHP as a programming language to carry out different programmable tasks and database information population and queries.

* Writing tutorial setup procedures for university students to setup and created software

**Standards and Baldwin June 2012 to September 2013.**

Assistant Software Design Analyst

* Analysing procurement system software requirement
* Drawing software designs e.g. Activity diagrams, class diagrams, use cases, sequence diagrams using UML tools such as visual paradigm.
* Documenting the drawn diagrams of the system.

**Personal Description**

I am a highly-motivated individual, who is willing and committed to work. I am ready to try new things and I always challenge myself. Because of my nature to explore, I have found a passion for project planning, requirement gathering, logic mapping and business development. I currently use this knowledge to grow myself and our latest commercial product Tukio.

**Other Projects**

* Expert Advisers to pick and manage forex trades on Meta Trader 4
* Product Authentication using Mobile software and NFC cards and readers.
* E-Learning Platform

Integrated with Video, Audio and Document Capability

* Stock control for Downstream Oil and Gas company
* Simplified Maths: mobile app written to alienate mathematics problems for secondary school, colleges and year 1 university students.
* Tenant Management Application
* Data Mining Project (Big Data) An application that can pre-process stock data prices using statistical financial technical indicators (Simple Moving Average, and Exponential Moving Average)

**References**

Available on request