ABASIBIANGAKE JAMES

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PROFESSIONAL PROFILE

A hardworking and self-motivated Mechatronics and Robotics Engineer (BEng), and a current graduate of Software Engineering. An avid learner who is also highly knowledgeable in the design and manufacturing of robotic devices from scratch. Able to analyse a problem to provide autonomous and cloud based solutions (Software engineering). Goes the extra mile to achieve the best result. Flair for full stack web development, mobile app development and cloud based applications. Prolific with using Java and C# Languages.

EDUCATION

Advanced Diploma, Software Engineering Technology, Centennial College (2023). GPA: 3.909/4.5.
Core modules: Software Development-A, Software Testing/Quality-A*, Mobile App Development, Java EE Programming- A*, API and Cloud Computing-A*, Data Warehouse and Predictive Analytics-A*, DevOps-A.

B.Eng, Mechatronics and Robotic Engineering, University of Leeds (2020). Graduating Grade: (2:1).
Core modules: Artificial Intelligence, Robotics and Machine Intelligence, Embedded Systems, Design and Manufacture and Vibration and Control,

Foundation Programme in Westerfield College (2017).
Mechatronics Engineering and Computer Engineering
Cumulative GPA: 4.44 out of 5.00
Foundation Grades: Mathematics – A*, Physics – A, Electrical science – A* and English – B.

PROJECTS AND WORK EXPERIENCE

Hospital Web Management System   **January 2023 - April 2023**
- Designed an application to help nurse practitioners to monitor patients during the first weeks of their release from the hospital and also help the patients to monitor their daily activities.
- Programmed the application using emerging web frameworks; build a Graph QL API using Express as backend and a Front-End (React) that utilises the Graph QL API .
- Applied Tensorflow modules for Deep Learning purposes to make predictions on the patient's medical condition and advise them on whether to see a doctor.
- Agile managed and deployed the application's artifact using Github and Microsoft Azure DevOps respectively.

Cruise Web App   **November 2022 – December 2022**
- Implemented a Java Spring Boot dynamic web application on eclipse IDE that allows the customer to register and book a cruise trip for the holidays, and an employee/admin to perform CRUD operations on a cruise detail.
- Integrated the application to run on an eureka discovery server and created a very interactive frontend design using thymeleaf.
- The application used persistent data with JPA repositories which was connected to both MySQL and MongodB for storing the customer and employees details.

Web Development(Portfolio and Ecommerce Website)   **May 2022 – August 2022**
- Designed and developed a portfolio website using html and CSS, which was later converted into Nodejs and express.
- The portofolio expanded to include a business contact list which interacts with the mongo database.
- Design and developed an ecommerce website by integrating the Node js backend with the Angular frontend using httpClient using REST datasource.

Mobile App Development (Library App and Laptop Store)   **May 2022 – August 2022**
- Designed and developed a library app where students can view the list of books and borrow a book while the Librarian can perform certain operations only after successfully login.
- At signup, the user's details are stored in the room database.
- Designed and developed a Laptop Store app where users can view and add new laptops to the list based on the authentication of the user.
- The laptop's and user's details were stored in the firebase database.
- Used the MVVM architecture design pattern in both scenarios for the separation of the views, models.

Robotic Management System   January 2022 – April 2022
- Designed a software that interacts with its robotic external component to perform several tasks assigned by the health care professional.
- Utilised the Agile Methodology Approach and the System Development Lifecycle to implement the System Requirement Specification and the System Design Architecture.

Detection of Oxygen in a Microfluidic Device   September 2019 – May 2020
- Simulated and analysed a microfluidic device to ensure effective growth of three, 3D bovine embryo tissue in an in-vitro environment.
- Designed each component in the device using SolidWorks and analysed each component individually in COMSOL Multiphysics software.
- Applied mathematics and fluid physics to analyse the oxygen diffusion, concentration as well as the oxygen consumption rate of the 3D embryo tissues in the device.
- Proposed the most suitable micro-sensor and its best position of attachment to the microfluidic device.

TECHNICAL SKILLS AND COMPETENCIES
- **Programming** – HTML 5, CSS, Nodejs, Angular, Express, C#, Java, Debugging, Python, SpringBoot, Eureka microservice, React, Javascript, REST API, Tensorflow and Deep Learning, Graphql.
- **Data Analytics** – COMSOL Multiphysics, Microsoft Excel, Machine learning, SQL, Mongodb, Firebase, Roomdb, PowerBI, Tableau, Data Analysis, Big Data, Solution Architecture.
- **Cloud Architecture** - AWS, RedShift, Azure, Azure DevOps, APIgee, Docker, Jenkins, Google Cloud Platform (GCP) · Amazon Web Services (AWS), Java Database Connectivity (JDBC).

OTHER WORK EXPERIENCE AND VOLUNTARY WORK
Data Engineer (FreeLance), Innova Schools, Remote.   April 2023 - Present
- Implement methods to improve data reliability and quality.
- Combine raw information from different sources to create consistent and machine-readable formats.
- Develop and test architectures that enable data extraction and transformation for predictive or prescriptive modelling.

Academic Tutor, Centennial College, Scarborough.   January 2023 – April 2023
- Tutoring students, individually or in groups (in person).
- Promoting the Learning Centre's services to students and faculty through class visits, discussions with faculty, departments and college events, and distribution of marketing material.
- Administrative duties as required.
- Completion of mandatory orientation and tutor training sessions.

Administrative Officer, Power Connections, Leeds.   November 2017 - July 2021
- Review and evaluate scheduled programmes.
- Prepare reports and analysis of concluded programmes.
- Conduct administrative duties.
- Seek endorsements and communicate with advisors on grant proposals.
- Support in resource training.
- Quarterly evaluates activity trends and recommends best options to management.

SOFT SKILLS
Communication, Team working, Problem Solving, Attention to details, Planning and organisational skills, Leadership, Coaching & Mentoring, Critical thinking, Time management.

MEMBERSHIPS AND CERTIFICATION
- Member of Association For Black and Minority Ethnic Engineers in the UK (AFBE-UK).
- Machine Learning with Artificial Intelligence Certificate.
- HackerRank Python Certification.
- Supervision Skills- Managing Groups and Employee Interaction Certificate.
- Inclusive Leadership Certification & AWS Cloud Practitioner Certificate in progress.

INTERESTS AND HOBBIES
Adventure, Interacting with people, Photography.