**Universal Equations Inc**

*https://www.uequations.com*

*Modernizing the Human Experience*

Digital Marketing, Cloud Computing, and Data Analytics

**Mensah Alkebu-Lan**

Lives in: Bogota, NJ

email: malkebu-lan@uequations.com

Office number: (267) 775-3011 Ext. 101

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| ***Career Overview*** |

A highly-motivated and innovative developer looking to work with an inspiring team, as a Scala/Java Engineer with emphasis on Data Analytics or Cloud Native Computing. Let my over 10 years of experience work for your project.

Feel free to visit my LinkedIn profile at:

<https://www.linkedin.com/in/mensah-alkebu-lan-824589a/>

**U.S. Citizen**

**Certifications**

Oracle Certified Professional, Java SE 7 Programmer

CIW JavaScript Specialist

ISTQB Certified Tester, Foundation Level

TOGAF 9 Architecture Framework, Certified

IREB Certified Professional for Requirements Engineering, Foundation Level

XML Master Basic

SOA Certified Professional

Oracle Certified Professional, Java EE 6 Web Services Developer

ITIL v3, Foundation

Oracle Certified Expert, Java EE 6 Web Component Developer

Oracle SOA Suite 11g Implementation Specialist

Oracle Certified Associate, Oracle WebLogic Server 11g System Administrator

OMG Certified Expert in BPM 2, Fundamental Level

Oracle Big Data Certified Implementation Specialist

Oracle Linux Certified Implementation Specialist

**Official Training**

Designing Java Web Services, Java EE 5 (Oracle)

Creating Web Services Using Java Technology (Oracle)

**Work Experience (Most Recent)**

**Consulting Software & Data Engineer**

July 2020 to Present

**Consultant for BNY Mellon –** Jersey City, NJ.

* Developed API in Java 8 using Spring Boot.
* Developed business-user dashboard using Angular libraries and Angular-based components.
* Worked on a team of 8 (6 developers)
* Utilized Jenkins and GCP’s App Engine for deployment.
* Underwent design review for frontend and backend (i.e.) design.
* Purpose of the internal application was to be able to assign and manage products & services for customers.
* Utilized DB2 database.
* Scrum with some agile principles.

*Technologies:* coreJava 8, DB2 Database, Spring Boot, RESTful Web services, Google Cloud Platform, microservices, Angular, Jenkins, Swagger.

**Freelance**

February 2020 to July

**Various clients –** New York, NY

* Due to the COVID-19 pandemic, had to work on several very short projects (less than a month per project). This would include companies like RightData in Atlanta.

*Technologies:* coreJava 8/Scala,multi-threading, MySQL & Postgres Database, RESTful Web services, Spring Boot, ReactJS (including hooks and Redux), Gatsby, GraphQL, Apache Kafka, Shopify API, Stripe API, Amazon Web Services, Python

**Consulting Software & Data Engineer**

February 2019 to December 2019

**Consultant for Twitter –** New York, NY

* Developed an internal application for Twitter’s Brand Strategist.
* Developed API in Scala and Java 8 using libraries such as Finagle and Finatra.
* Developed business-user dashboard using React libraries.
* Utilized Devops technologies such as Apace Mesos and Aurora.
* Utilized GCP services like Kubernetes and their data services.
* Underwent rigorous design review from Twitter’s design review team.
* Major component of application was an asynchronous data pipeline that processed tweet data.
* Used React libraries (ReactDOM, Redux, hooks, etc) to create dashboards
* Utilized Finatra module with native integration with Kafka Streams for streaming functionality.
* Utilized Hadoop file system for many aspects of development and processing.

*Technologies:* coreJava 8/Scala,multi-threading, MySQL Database, RESTful Web services, Google Cloud Platform, microservices, ReactJS, Apache Kafka, Hadoop

**Consulting Software Engineer**

August 2018 to February 2019

**Consultant for MacQuarie –** Philadelphia, PA

* Developed services to adapt XML documents in an industry format to a client-friendly format.
* Utilized Apache Camel to implement Enterprise integration Patterns.
* Agile SDLC.
* Utilized Apache Camel and Spring Boot to connect to JMS queues.
* Processed investment orders written in FIXML.
* Developed health indicators to send health data to Splunk and AppDynamics.
* Used React libraries (ReactDOM, . etc) to create dashboards
* Used JBPM & Drools to process investment orders.

*Technologies:* coreJava 8, Spring Boot, Apache Camel, RESTful Web services, Splunk, AppDynamics, Fixml, Amazon Web Services, IBM MQ, Solace, AWS, microservices, ReactJS, NodeJS, JBPM, Drools, Pega, SalesForce

**Consulting Software and Data Engineer**

August 2017 to July 2018

**Consultant for Comcast Corp. –** Philadelphia, PA

* Developed services optimizing visibility into IT Operations (i.e. Log Analytics).
* Utilized open source tools such as ElasticSearch and Kibana.
* Agile SDLC.
* Utilized tools from the Big Data ecosystem such as Apache Nifi.
* Developed APIs primarily in Scala using Twitter libraries such as Finagle and Finch.
* Used React libraries (ReactDOM, . etc) to create dashboards.
* Interacted with Data Lake governed by Avro schema.
* Ingested log events and metrics using Apache Kafka.

*Technologies:* coreJava 8, Scala, multi-threading, DynamoDB Database, RESTful Web services, Kibana, ElasticSearch, Apache Nifi, Amazon Web Services, Docker, Splunk, microservices, ReactJS, NodeJS, Apache Kafka, SalesForce

**Consulting Software & Data Engineer**

July 2016 to August 2017

**Consultant for Reed Elsevier –** Philadelphia, PA

* Developed services that utilized clients for AWS Services (ie S3).
* Was a member of Analytics/Recommender Team.
* Agile SDLC.
* Worked on Spark Batch Jobs. Also utilized Machine Learning library.
* Developed algorithms for Recommendation evaluation (User-based).
* Used React libraries (ReactDOM, . etc) to create dashboards.

*Technologies:* coreJava 8/Scala, multi-threading, PostgreSql Database, Web services, Tomcat, XML Schema, Hibernate, JDBC, ElasticSearch, Amazon Web Services, OpenShift, microservices, ReactJS, NodeJS, Apache Spark, Hadoop, Angular, Elastic MapReduce

**Consulting Software and Data Engineer**

January 2016 to July 2016

**Consultant for De Lage Landen –** Wayne, PA

* Refactored SOAP-Based Web Service solutions (i.e. Spring Web Services).
* Adhered to Oracle’s(JSR-352) batch specification while Re-Designing and Re-Coding batch applications for credit scoring
* Del Lage Landen is a Financial Services provider valued at over 40 billion.
* Created business user portal using REST and SOAP (Legacy business services).
* Carried out first phase of migration towards Big Data (Hadoop & Spark(Java 8/Scala))

*Technologies:* coreJava 8, multi-threading, Oracle Database, Web services, JBoss EAP, XML Schema, PL/SQL, Hibernate, JDBC, Oracle SOA,IBM DataStage, Websphere, Pega

**Consulting Full Stack Engineer**

April 2015 to December 2015

**Various clients -- Greater Philadelphia Area**

* Worked on a variety of assignments implementing RESTful, Service Bus, UI, Caching, Transaction Management, Web Server clustering/load balancing, and Messaging solutions.
* Implemented RESTful Web services that produce and consume JSON data.
* Have worked to migrate Spring MVC components to RESTful ones where appropriate.
* Persistence/Data Access implementations have included Hibernate, EclipseLink/TopLink, MyBatis/Ibatis, and JDBC with Rx-Java.
* All persistence solutions have involved the tuning of the connection pool in accordance with the clients needs. Connection pool implementations have included Oracle UCP and HikariCP.
* UI implementations have utilized technologies such as AJAX, AngularJS, Bootstrap CSS, JQuery, as well as a number of related plug-ins.
* Have developed/administered primarily in a Linux environment (Ubuntu/Orale Linux) while have worked with or integrated BI applications running in a Windows environment.
* Used Maven for builds and related tasks. Also, setup and used Jenkins for CI.
* Gained value experience with Oracle’s Enterprise Manager and other Oracle middleware.
* Utilized Git and Subversion dependent technologies(Assembla, etc) as a source code repository – depending on the project.
* Have migrated legacy batch applications to Spring Batch.
* Have worked on some Python and Scala implementations (i.e. Spark).
* Have worked to migrate enterprise architectures to a more cloud-ready architecture.

*Technologies:* coreJava, multi-threading, Oracle Database, Web services, WebLogic, XML Schema, PL/SQL,Hibernate, JDBC

**Senior Implementation Consultant (Java & Oracle Database)**

November 2014 to April 2015

**Consultant for McKesson Health Services –** King of Prussia, PA

* Provided customers with implementation of product features in collaboration with business and IT stakeholders
* Acted as implementation lead for customer configuration, setup, and training.
* Setup customer accounts across multiple products and environments.
* Consulted with customer for logic pertaining to web services and/or bulk loads.
* Supported the integration testing of customer logic.
* Provided production deployment support and transition to our operational tier 1 & tier 2 support teams.
* Troubleshooted level 3 production support issues and recommended solutions as required
* Modified/deleted data across multiple environments
* Assessed client's internal environment's needs with delivery of formal technical requirements and product assessment
* Contributed to teams that create application architecture artifacts, design frameworks, standards and best practices
* Aligned data model to suit specific performance requirements, stored procedure/ query tuning, and large data feed handling.
* Created ETLs to feed the data warehouse.

*Technologies:* coreJava, multi-threading, Oracle Database, Spring Webflow, Web services, Weblogic, JSF, Ant, XML Schema, PL/SQL, SQL Loader, JDBC

**Consulting Software Engineer**

May 2014 to November 2014

**Consultant for CMS** – Owings Mills, MD

The End Stage Renal Disease Program(ESRD) QIP contract to provide maintenance and operational support to a large suite a software applications while simultaneously heading up the design and development efforts to consolidate those applications into a targeted architecture.

The ESRD QIP is the first CMS value-based payment program. The ESRD QIP provides CMS with a system for measuring the quality of care provided by each ESRD facility and for determining which facilities are eligible for full payment based on CMS standards.

• Developed highly scalable components in a high traffic transactional data and data warehouse environment following software engineering best practices.

• Developed data persistence based on commercial and open source relational databases.

• Provided thorough and automated unit test harnesses for developed solutions.

• Followed disciplined software development processes.

• Led development team on various aspects of development, design, and maintenance.

defined and maintained SOA centric infrastructure documentation according to defined environments

* forecasted resource needs for SOA projects
* Developed and deployed Java EE components within WebLogic server.
* Developed, designed, and implemented OBIEE objects.
* Did complex data aggregation of patient and provider records using concurrency.

*Technologies:* coreJava, multi-threading, Oracle Database, Spring MVC, Web services, WebLogic, JQuery, OSB, Hibernate, Apache CXF, Spring MVC Portlet, WebCenter, Jasper Reports

**Consulting Software Engineer**

December 2012 to April 2014

**Consultant for NOAA and affiliates** – DC Surrounding Area

* Provided Java Programming skills and experience in support of the full Software Development Life Cycle (SDLC) for FAA ATO IT software development projects
* Was responsible for development and maintenance of existing Java based Web service applications using Spring and Hibernate frameworks, and Oracle database systems.
* Gained knowledge and experience making strategic and tactical considerations concerning distributed application architecture.
* Worked on web applications composed of JSPs, servlets, JavaScript, etc.
* Used JSF development tools for UI development.
* Worked on GOES-R project developing software for lightning mapper(GLM) instrument on satellite.
* Responsible for designing, coding, and implementing SOAP/REST Web Services.
* Used TCP/IP monitor to validate WS-I compliance.
* Assisted project managers in gathering information regarding scope, time, and effort.
* Designed and developed Web Services using both java-to-wsdl and wsdl-to-java approaches.
* Utilized Oracle Service Bus(OSB) and other fusion middleware related to SOA implementations.
* Utilized additional Oracle implementations such as SOA Suite, ADF, etc.
* Developed distributed high-performance multi-tiered applications using the Oracle Coherence caching scheme.
* Developed and configured in-memory caching solutions using Oracle Coherence Grid.
* translated ‘business’ needs into SOA solutions
* worked with development teams to streamline their software development processes through the appropriate application and utilization of SOA techniques and services while improving performance and quality
* Developed and deployed Java EE components within WebLogic server
* Leveraged SSO and SAML in Java-Based software

*Technologies:* coreJava, multi-threading, Oracle Database, Spring, Web services, WebLogic, Linux (RHEL), Oracle Coherence, JPA, java.util.concurrent, TestNG, Rational DOORS, Cassandra

**Oracle Developer (Java & PL/SQL)**

August 2011 to December 2012

**Anne Arundel County Public Schools** – Annapolis, MD

* Worked on meaningful projects requiring, besides strong analytical abilities, the knowledge and use of, stored procedures and other aspects of SQL query language and Oracle databases holding information on the county's 80,000 students.
* Utilized HTML, CSS, and Javascript to begin working on a website to keep track of current research projects.
* Worked with Oracle 10g by using command line, development suites and other means.
* Possess excellent communication skills, both oral and written. Completed research documents as extensive as 100 pages. Also presented to high-ranking executives on numerous occasions.
* Worked on difficult and complex problems including but not limited to working with large databases.
* Wrote solution descriptions, requirements, specifications and other guiding documentation from a technical point of view.
* Effectively communicated designs to customers and presented design options.
* Utilized XML, XSLT, SOA, and web services.
* Designed and coded software modules guided by SOA design principles.
* Gained hands-on experience with Java and J2EE technologies (EJB, JMS, JDBC, JSP, JMS)
* provided input to the definition and communication of the organization’s standards and procedures for SOA approaches
* tracked SOA service assets through the release cycle
* Developed and deployed Java EE components within WebLogic Server.

*Technologies:* coreJava, multi-threading, Oracle Database, Spring, Web services, Weblogic, JPA, variety of Oracle Middleware implementations , Microsoft Access, Jasper Reports, PL/SQL

**Early Career Summary (2005-2011)**

My early career (2005-2011) as a Software Engineer began in 2005 with an Ecommerce company called The Cultural Exchange Shop (<https://www.theculturalexchangeshop.com/>). At that time, it was essentially a mortar and brick company that was trying to close its doors and move its operations completely online. This work was mostly LAMP. At that time, Java was only starting to become popular. The work was completed in 2008, when I started at a pilot Middle School on Howard University's campus (<https://hu-ms2.org/>) named the Howard University Middle School for Math & Science. That's where I began doing more Java Web development. With that foundation, I would eventually become an Oracle Certified Professional in Java and Certified Expert in Web Components. The work here ended in 2011.

**Conferences Attended**

* 25th International World Wide Web Conference – Montreal, CA

**Education**

**Howard University – Washington, DC, (Not Completed)**

*Earned 58 credit hours in graduate-level mathematics including 9 credit hours of graduate-level statistics.*

Doctoral degree in Computational Mathematics ( GPA: 3.3/4.0)

Began at Howard in a doctoral program. Due to circumstances related to funding, could not complete.

Passed qualifying exam in Statistics.

Did research with Dr. Abdul Rahman on String Theory.

While doing research with Dr. Francois Ramaroson on elliptic curves, used various technologies (MATLAB, C++, Java, etc.) for analysis.

Took graduate-level class in Electromagnetic Theory.

**Virginia State University – Petersburg, VA, 5/03 (Graduated)**

B.S. in Engineering Physics ( GPA: 3.3/4.0 )

Took and excelled in several business courses.

Worked on several research projects requiring the knowledge of procedural programming languages like FORTRAN as well as used SQL to do data analysis for research as a research assistant.

**Community Service**

**Y.O.U.R. Community Center**

4913 14th St NW

Washington, DC 20011

(202)-291-3034

**Professional Societies**

Association for Computing Machinery (ACM)

Scrum Alliance

IEEE Computing Society

**Awards**

Was nominated and accepted to have name placed on Continental Who’s Who registry as a Researcher and Developer(2012).