Obadiah M Obare

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EXPERIENCE

- **Deveint Limited** — Nairobi, KE
  Senior Software Engineer — *May 2016 - Present*
  - **Big Data**: Set up the company's Hadoop, Spark and Kafka infrastructure using Scala. Migrated the existing databases from MySQL and PostgreSQL to HDFS
  - **Mobile Development**: Started the initial team of Android and iOS developers.The team has since grown to over 4 developers and over 5 apps deployed to Playstore and Appstore with over 100k downloads in total.
  - **Nairobi Securities Exchange**: Led a team of 5 engineers to develop Android and iOS apps that enable users to access real-time trading statistics. Automated the migration of over 8GB of Excel data into PostgreSQL and HDFS. Sanitised the data and removed any unwanted values.
  - **REST API**: Implemented the accompanying REST API for the apps .Involved with authorisation, unit and integration testing and deployment of the API.
  - **Linux System Administration**: Formed the first cyber security team in the company to protect the servers, reducing the number of successful hackings significantly.Ensured accountability in server access by disabling root login, using 2FA , requiring all developers use SSH keys and creating a role-based access system using Bash.
  - **Panelist**: Gave a talk to over 20 start-ups on what is Big Data and how they can take advantage of it.Gave a short intro to Hadoop and Map Reduce.

- **LoanBee Limited** — Nairobi, KE
  Machine Learning and AI Engineer — *Dec 2017 - Present*
  - **LoanBee Credit Scoring**: Rewriting the credit scoring module to use Machine Learning , specifically Neural Networks
  - **Fraud Detection and Prevention**: Using Recurrenet Neural Networks and CNNs to identify fraudulent transactions and stop them.Rewriting the model in Scala and Python.

- **Beyonde Labs** — Remote
  Software Engineering Consultant — *Sept 2015 - Dec 2016*
  - **XPRIZE BomaEd**: BomaEd is a learning platform for kids in areas with no teachers. Researched the initial product and developed the prototype. Built a custom android based OS that can be easily installed on any device for the kids.
  - **KaziPlus**: Helped in the development of the recruitment site for developers and designers.

- **Webtribe Limited** — Nairobi, KE
  Software Engineer Intern — *May - Sept. 2015*
  - **National Health Insurance Fund**: Redesigned the National Health Insurance Fund(NHIF) application following Material Design principles , increasing downloads to over 100K on Playstore, fixed previous race conditions and crashing issues.
  - **Soja**: Soja is a visitor management system. Designed and developed the mobile application. Deployed the server side code to the company's servers and set up the initial schema.

- **Jomo Kenyatta University of Technology** — Nairobi, KE
  Project Leader — *May 2017 - Present*
  - **Volunteer Tutor**: Introduced over 40 students to machine learning using Tensorflow by building a Convolutional Neural Network(CNN) that categorizes objects in images.Taught a 4-week introductory course on Android basics and unit testing.

OTHER PROJECTS

- **Big Data Panelist**: Advised SMEs and startups how to harness Big data and Machine Learning to cut costs and improve efficiency
- **Tensorflow Essentials**: A repository containing simple applications of AI and ML in various fields for beginners.The sample use Google's Tensorflow framework.
- **MPESA SDK**: Open source SDK to enable developers to easily accept mobile payments in their apps.
- **Kenya Decides**: A platform for Kenyans express their political views openly and track accountability from leaders.

EDUCATION

- **Jomo Kenyatta University of Science and Technology** — Nairobi, KE
  Bachelor of Engineering in Electrical and Computer; GPA: 3.5