

# Obaya James Dralega

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## TECHNOLOGIES AND LANGUAGES

- Next.JS + React.Js
- Java 8 + Spring Boot
- Apache Cassandra (NoSQL)
- Apache Kafka
- DevOps: Vercel, Git, Ansible, TeamCity
- Scala
- Blockchain (Solidity)

## EXPERIENCE

### **Afropocene StudioLab, Kampala Uganda**

**May 2021-Present**

#### **Tech Lead**

**NextJS, Solidity**

Afropocene StudioLab is an award winning collaborative arts and technology lab, which aims to foster and export the next generation of influential African technology (NFTs) and art. We are a proud recipient of funding from the United Nations Development Program in 2023.

Designed and implemented the fullstack, responsive, web3 capable website which was designed with mobile-first principles, written using NextJS (ReactJS).

The UI was designed using Styled React (CSS-in-JS) Components from ChakraUI Library.

Used Sanity as a Content Management System and Content Delivery Network for worldwide low latency of images.

Includes digital art sculpture made using ThreeJS (JavaScript 3D Graphics Library).

Hosted on Vercel and has a CI/CD pipeline from a Git repository for quick web updates.

Website scores 95+ in google page rank for Performance, Best Practices, SEO and Accessibility.

To date we have held several programming workshops (on creating and deploying NFTs on Ethereum), two physical art exhibitions, music events and have launched a virtual NFT gallery and website with interactive art components (Digital ASCII Sculpture).

### **Role: Credit Suisse London, Scala Developer**

**Nov 2020-May 2021**

#### **Team: Intraday Equity Derivatives IT, Global Trading Solutions**

#### **Derived Pricing Rule Data Loader**

**Scala, Kafka, Docker**

Developed a Scala module which allows for creation and pricing of 'Custom Indexes' for equity derivatives. The module sources and loads data from an internal tool using a REST API, then builds matching Pricing Rules for Equity Derivatives and publishes them over Kafka to downstream trading systems for use on the front desk.

### **Role: Full Stack Developer, Credit Suisse London**

**2017-2020**

#### **Team: Reporting Bus, International Trading Solutions**

The Reporting Bus is a highly scalable Risk and Trade reporting solution for multiple Risk Management Systems.

With a Java 8 Spring-Boot based microservice architecture, the solution communicates over Kafka and is monitored with the use of Grafana.

#### **Manual Operations Dashboard**

**React/Typescript, Java8, Cassandra, REST APIs, TeamCity, Ansible**

- Led creation, design and implementation of the Manual Operations Dashboard (MOD) a React/Typescript web application used daily by the team and support users to view the internal state of the Reporting Bus application, manage large volumes of trade and risk data, and correct the application state if in error.
- Experimented with multiple tech solutions to overcome technical challenges due to a API latency from an downstream team.

- Used advanced Ag-Grid features to allow manipulation of the data in a user-friendly way.
- Automated CI/CD Deployment path using Git, Ansible and TeamCity to push the project to multiple environments, wrote and maintained tests.
- Acted as end-to-end owner of the project, responsible for creating and delegating JIRA tasks to colleagues, managing progress of the project and holding sessions to share WebDev knowledge within the team.
- Set up Grafana dashboards to capture metrics from the services and trigger email alerts.
- Set up several other microservices to help the team, such as a config duplicate checker, and managed production issues as they arose.

**Role: Technical Analyst, Credit Suisse London**

**2016-2017**

**Team: Credit Trading Developer, Global Markets IT**

**Java, SQL**

- Designed, developed and implemented two new Straight Through Processing feeds to connect Credit Suisse with an external broker in New York.
- Utilised Java, SQL, FIX messaging protocol and JSONs in creation of plugins to process Trade Capture Requests then store them in the database.
- Plugins are currently deployed into production on the front desk.

## **EDUCATION**

**University of Manchester**

**B.Sc. (Hons) Computer Science**

**First Class**

**2013-2016**

**Final Year Project: Mandelbrot on FPGA**

Researched, developed and implemented a system for the computation of the Mandelbrot Set Fractal on a Field Programmable Gate Array (Reprogrammable Hardware) to showcase the massive parallel computing power of FPGAs.

**Kilburn Entry Scholarship:** Awarded to the highest performing applicants to the School of Computer Science.

## **PROJECTS**

**Optimus Dime: Trading Bot (Personal) Java 8, Spring Boot**

**2020- Present**

A personal interest project that connects to multiple crypto exchanges over REST API and enables the user to build, backtest and analyse trading strategies using the Ta4j library of Technical Indicators.

**HackerRank Cup (Credit Suisse)**

**2018- 2019**

Founded a TA programming competition series to foster a more tech-focused environment in the bank, to identify top performers and to introduce programming concepts to those new to software development. Ran 7 Rounds with tech-prizes for top competitors.

**PoC: 'Blockchain Project Genesis' (Credit Suisse)**

**2017**

Designed and developed the back-end of a generic system for automatic settlements of financial instruments, using Solidity smart contracts on a private Ethereum-Based Blockchain. Partnered with external Silicon Valley Start-Up.

## **VOLUNTEER EXPERIENCE**

**Humble Beeing Uganda**

**2020-Present**

**Role: Co-Founder , Beekeeper**

Humble Beeing is a proudly Ugandan Social Enterprise specialising in Beekeeping. We offer free training and low-cost hive materials to farmers and communities in impoverished areas of Uganda. Our mission is to help individuals and households to become self-sustaining by selling fine Ugandan honey and other bee products they produce to local and international markets.