AVIRUP NANDI

Software Engineer (Scala Developer), Global Markets Technology - Securities

PROFILE

Computer science graduate from VIT, Vellore with 3 years of experience as a software developer at Bank of America. Have worked on multiple investment banking application with tech stack including Scala, Python, AMPS, AKKA, Plasma (in house reactive framework), Apache camel, Apache spark etc. Have acquired in depth business domain knowledge on Investment Banking mainly securities.

CONTACT

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HONORS-AWARDS

GLOBAL RECOGNITION SILVER AWARD
GLOBAL RECOGNITION PLATINUM AWARD
GLOBAL RECOGNITION SILVER AWARD
GLOBAL RECOGNITION PLATINUM AWARD

EDUCATION

The Air Force School (Subroto Park, New Delhi) - X
2012
The Air Force School (Subroto Park, New Delhi) - XII
2014
VIT University, Vellore – BTech (CSE)
2018

CERTIFICATION

Bank of America Machine Learning and Deep Learning - Great Lakes
 March 2020
Functional Programming in Scala Specialization - Coursera
 September 2019
Functional Programming in Scala Capstone - Coursera
 September 2019
Parallel programming - Coursera
 September 2019
Big Data Analysis with Scala and Spark - Coursera
 August 2019
Functional Program Design in Scala - Coursera
 July 2019
Functional Programming Principles in Scala - Coursera
 July 2019
DAT209x: Programming with R for Data Science - edX
 July 2017
Android application Development -TIFAC-CORE (VIT University, Vellore)
March 2016

SKILLS

Languages
Scala, Ansible, C, C++, JAVA, XML, R, Android, PHP.

Data Persistence
ElasticSearch, AMPS, XA Data modeling.

OS
Linux, Windows

IDE
IntelliJ IDEA, Eclipse, Dev C++, Code Blocks, Android Studio.

Framework
Plasma (in house reactive framework), Apache Camel, AKKA, Apache Spark, TensorFlow.

Business Knowledge
Deficits, 15c3-3(d)(4), 15c3-3(d)(2), M3, Settlements, Client asset segregation, buy-in, Investment Banking.

Industry Knowledge
Machine Learning, Test Driven Development, Business Driven Development, Algorithms, Software Development, Scrum, Jenkins, JIRA

WORK EXPERIENCE

Bank of America (Software Engineer 1 A)
(August, 2020 – current)
- Real time Deficit and Extension data streaming to operational data storage and subsequent enquiry on the data
  (Have designed the data model with bitemporality by discussing and debating with various stake holders. Implemented the real time streaming of data with this model using actor listeners.
  Have worked with Architecture team to implement enquiry on the data)
- Performance improvement of around 600%
  (Have Implemented the segregation of data in motion and data in rest and leveraging this implemented change in the reactor system which significantly improved the processing performance)

Bank of America (Software Engineer 1 B)
(June, 2020 – July, 2020)
- 15c3-3(d)(4) regulation implementation
  (Have implemented reactor system and various other work flow modules related to this regulation and productionization of the same.)

Bank of America (Senior Tech Associate)
(June, 2018 – June, 2020)
- Real time data streaming from Inventory management
  (Picked up Scala and delivered multiple modules for the project)
- Kafka to AMPS migration in Settlements
  (Implemented bridges to source data from various sources using apache camel and pushing the data to high available AMPS)
- Work Item Management for controls (Deficits)
  (Implemented the theory of the work finding the operations user by integrating the application with the strategic platform using apache camel)
- Deficit metrics
  (Have single handedly implementing and productionized a statistical Repotting RESTful application for deficit controls in Scala using technologies such as Elasticsearch, AKKA, OPS server etc. in just 2 sprints.)
- DR Strategy
  (Implemented DR scripts using Ansible and demonstrated the same capability by switching to DR for more than 2 weeks)