Mahidhar **NANDIGAM**

Software Engineer | Developer/Enthusiast Java/JEE

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Java Developer with 8+ years with passion for new technologies in general. Adept at solving complex problems with innovative, out-the-box thinking. Pursuing opportunities that challenge and provide avenues to learn new technologies. <custom edit for each job>

Skills

Languages	**Java** 8, Angular 6, Groovy, Python.
Frameworks	Spring, Spring Boot, Spring Data, JPA/Hibernate, JUnit, REST Assured.
Databases	SQL, MongoDB, GraphDB, Liquidbase.
Services	Apache Kafka, Splunk, SonarQube, Dyanatrace
Developer Tools	Swagger Docs, **IntelliJ Idea**, git, vim.
Cloud Tools	**PCF**, Azure, Localstack (Local AWS).
DevOps Tools	Docker, **Jenkins**, Kubernetes, Nexus, Maven, **Gradle**, Contract Testing
Software Life Cycle	Agile/Kanban, Paired programming

Professional Experiences

Current – Jan 2018 | **Ford Motor Company | Full Stack Developer, Dearborn, MI**

- Developing software delivery mechanism for OTA (over the air) updates for vehicles.
- Constantly involving in architectural re-design due to growth and new features.
- Created **4** out of **6** well tested micro-serivces, using spring initializr.
- Applied **TDD** approach from the beginning and achieved a code coverage of **95%–91%** for all micro-services.
- First in department to use queues (**Service bus, Kafka**), as a consumer and producer using only spring libraries; thereby keeping implementation agnostic.
- Used streaming solutions for large file upload/download as part of request. To keep application running out of memory, and never to have memory leaks as well.
- Paired across teams to build Angular based UI, that servers as a AppStore-esque web-based application.
- Scripted **Jenkins** pipeline to include release as stage that publishes to private nexus repo.
- Mentored **3** developers on the team at various level of the project.

Liquidbase | Spring 2.0 | TDD | (CI) Git | (CD) Jenkins | Nexus | PCF | MS-SQL (Azure) | Angular 6

Dec 2017 – May 2017 | **Ford Motor Company | Software Engineer, Dearborn, MI**

- Brought up new backend micro-services that help create profiles for electric vehicle's charge stations based on location.
- Created Integrated and Functional Test suite for feature traceability and valued added user stories.
- Integrated with third part APIs to get location information, that is in turn used in creating user profiles.
- Designed a three layer data model to have complete de-coupling, and achieve abstraction for development.

Spring Boot | Gradle | Lombok | Mapstruct | BDD | Gherkin | PCF | Mongo Db

April 2017 – September 2014 | **Cerner | Java Developer, Kansas City, MO**

- Added new features for scalable applications that register and schedule patient visits across various hospitals/clinics in USA.
- Worked on SOA based application for patient data management. Implemented services to meet compliance by HIPAA.
- Implemented persistence layer using Hibernate to retrieve and store data from tables in Oracle.
- Migrated **1000+** of lines of code (about 20%) to use spring from Java 6.
- Developed Python scripts for automating tests based on given test plans, these scripts would read i/p and run them against tests and dump o/p in target folder.

JPA | Hibernate | Spring Data | Maven | Python | SVN

March 2014
April 2013

Qualcomm Semiconductors | CPU Verification Engineer, Raleigh, NC

- Architecture verification of the CPU of the then next-gen Qualcomm's ARMv8 and ARMv7 compliant processor.
- Developed tests to verify ICACHE commands in ARM architecture.
- Provided solutions to bridge OVM/UVM (different verification methodologies) based test suite with DV(design verification) team's test bench.
- Created new OVM/UVM based components new design to ensure functional coverage.
- Wrote functional verification tests for 64-bit ARM based processor based on specifications.

Java | Matlab | VHDL | Verilog | Perl | Cadence

Languages

Java	●●●●○
Spring	●●●●○
Angular	●●●○○
Groovy	●●●○○
SQL	●●●○○
Python	●●●○○
Cypher (Neo4j)	●●○○○

Strengths

- Always learning
- Passionate
- Motivated
- Self starter
- Hard working
- Friendly

Education

2012 Completed coursework in Ph.D(Cryptography) from the George Mason University (Computer Engineering)
2010 Master of Science from the Old Dominion University (Computer Engineering)
2006 Bachelor of Science, Computer Science, Sir CRR College of Engineering, Andhra University, India

Projets/Publications

Predicting stock price 2018 - WIP

github.com/mnandig/quantamized-investing
This project is purely educational and is meant to give hands on experience into the world of data analysis.

Python | Machine Learning | Artificial Neural Networking

Data Management with GraphDB 2018 - CURRNET

github.com/mnandig/master-data-management graph-example
Master Data Management is application that provides with holistic view of data using GraphDB's.
Master data should unify customer, product and supplier data either in a single repo or distributed repository.
Neo4j's implementation is tested with a TDD approach.

Neo4j | Spring Data

Optimal design of an offshore wind farm layout 2008

Document Id on IEEE : 4581308
Simulated cost benefit analysis of large scale production of HVAC and structural modeling of off the shore wind farms with substantial results.
Published in 2008 International Symposium on Power Electronics, Electrical Drives, Automation and Motion.
Cited in 17 papers till date.

Genetic Algorithm | Matlab | Perl/Python | Java

References

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