Mahidhar **NANDIGAM**

Software Engineer | Developer/Enthusiast Java/JEE

571 499 2172 @ mahidhar.nandigam@gmail.com

Java Developer with 8+ years of professional experience and adept at solving complex problems with innovative, out-the-box thinking. Eager to join team that provides opportunity that challenges and also open avenues to learn new technologies.



Java 8, Angular 6, Groovy, Python. Languages

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 microservices.
- 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

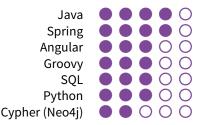
March 2014 April 2013

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







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

EDUCATION

- Completed coursework in Ph.D(Cryptography) from the George Mason University (Computer Engineering) 2012
- 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

66 References

Andy Kaminski

Lead Engineer, FORD MOTOR COMPANY



akaminsk@ford.com

586-212-4262

Karthik Ginnavaram

Software Engineer, DISH NETWORK



karthik.ginnavaram@dish.com

551-580-6710

Joshua Kuestersteffen

Software Engineer, CERNER CORPORATION



joshua.kuestersteffen@cerner.com

316-621-0641