NITHISH KUMAR

Software Engineer I

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- 5 years of professional experience in design and development of Web Based, Client-Server and system level applications using Java/J2EE technologies.
- Extensively worked on Payments and Cards, Banking, Financial, Services & Insurance Domain.
- Have hands on experience in design and development using Angular-CLI, Spring Boot, JavaBeans, Hibernate, Spring MVC.
- Having hands on experience by creating a Spring Boot Application created a banking project especially Authentic Web UI project from Scratch with the Angular Support
- Strong skills in data structures, database, algorithms, networking.
- Deployed Web applications using Maven and Ant open sources which were provided by Apache.
- Strong Debugging, Analytical skills, Problem solving skills, excellent communication skills.
- Expertise in Core Java with strong understanding and working knowledge in Object Oriented Concepts like Collections, Multi-Threading, Synchronization, Exception Handling, Streams & File I/O.
- Have hands on experience in Python in Excel Handling using Pandas and Openpy xl framework worked for BFSI domain worked for major modules like PPNR (Pre-Provision Net Revenue), RSA, Capital Plan Reporting.
- Experience in building highly available and scalable distributed systems, Worked on AWS,Azure and
- Worked on the dynamo DB which is provided by AWS and postgress for Azure portal
- Having hands on experience on databases use when implementing B-Trees and talk about related data structures such as Page Buffer, Write-Ahead Log, how to implement compression and perform defragmentation and compaction

Skills

Cloud Environment: Azure, AWS , Helm, Kubernetes,Grafana,Prometheus
Technologies: Java, J2EE, Python

Databases: Oracle 12c, Cassandra (No SQL), Datastax Enterprise, Solr, Postgress, MySQL

Web Technologies: Angular CLI, JSP, Java Script, HTML, CSS

J2EE Technologies: JDBC, Servlets, JSP, EJB. Frameworks: Spring-Boot, Hibernate

Frameworks: Spring, Hibernate

Built-in Tools: Maven, Log4j, Ant, Junit, SVN.

Tools: Eclipse, NetBeans, Anaconda, SPYDER, Python IDLE (2.7),Spring Tool Suite

Web Servers: Apache Tomcat

Education

2011-06 - 2015-05

Bachelor of Engineering: COMPUTER SCIENCE AND ENGINEERING

BIRLA INSTITUTE OF TECHNOLOGY MESRA

CGPA: 6.7
COURSES: JAVA, Data Structures, Database System, Operating System, Formal Language and Automation Theory, Computer Network and Security, Data Mining and Data Warehouse.

2009-06 - 2011-03

XII Standard

SRI CHAITANYA JR. COLLEGE - Andhra Pradesh

Percentage Equivalent:90.5

2008-06 - 2009-03

X Standard

BHASHYAM PUBLIC SCHOOL - Andhra Pradesh

Percentage Equivalent:90

Work History

2018-07 - Current

Software Developer I

NCR CORPORATION INDIA PVT. LTD, NATIONAL CASH REGISTER

Project Title: Migration Authentic Process and Authentic Web applications to cloud environment

Technologies Used: Kubernetes, AWS, Azure, ActiveMQ,Helm,RabbitMQ,Docker Deployment with CI/CD pipeline

Feature Implemented:

- Externalizing all resources files from Authentic Runtime and web applications to spring cloud config server.
- Decouple Executive Registration to Local Controller, Remove use of RMI in Authentic Components.
- Authentic Cloud monitoring and application management in Kubernetes
- As part of the Cloud Enablement, Authentic Components (server/web) to be deployed as containers on to Kubernetes Cluster.
- Kubernetes Health Check Probes
- Implemented all screens with Cassandra using search only with partition keys and clustering keys support.
- Authentic Deployment metrics collection of pods and nodes using Grafana and Prometheus server
- Containerizing all authentic process and web application and pushing images into jfrog

Project Title: Authentic Web UI (Migration of Authentic Desktop to Web Application)
Client: Barclays, Santander UK, ANZ, BCS, Wells Fargo, Corner Banaco, China Bank
Technologies Used: Java, Spring Boot, Angular CLI (Type Script), Authentic Desktop in Java Swing ActiveMQ Apache Cassandra, Solr, Datastax Enterprise, RDBMS, Apache Tomcat, Docker Deployment with CI/CD pipeline
Description: Authentic product is configured as a switch.We will authorize transactions from a fictional customer using some message mapping rules between issuer and acquirer.We have some modules as part of switch Interface Field Sets, Validation with request and response. This product is built in 2001 in java swing as many Banks are using this Authentic as switch.We migrated it to Web application.
Feature Implemented:

- I have built the framework following some standards by using spring boot and typescript.
- Supported multiple databases like RDBMS , Cassandra , solr for transactions and dse without writing different service calls for each code managed it by creating different beans and conditional expressions based on conditions.
- As application should support security so created a jwt token and csrf token that any cannot tamper, and screen level information and security information is encrypted with the token.
- Implemented a generic approach for search and view screens through json configuration we almost built 150 screens.
- Implemented rearrange column through json with a generic approach and built a generic table to support all entities.
- Implemented CORS configuration for http headers to avoid cross origin issues.
- Implemented all screens with Cassandra using search only with partition keys and clustering keys support.
- Implemented DSE for all screens using by creating indexes for entities and search happens only with index keys.
- Using Reflection concept of entities, we used that create indexes.
- Built criteria API to support search entity for wild card search with any entity and with any operator.
- Introduced a generic validation framework json to support all screens without doing any code changes.

2017-11 - 2018-07

Software Engineer

Sunera Technologies Inc., Hyderabad, Telangana

Client : Quebec, Tams, AJG, covalence, fujitsu
Technologies Used: Java, Spring MVC
Description: Cloudtestr is a script-less testing automation platform that enables simplified test creation, test cycle management, integrated test execution and reporting
Features Implemented:

- Building Restful Web services using JAX-RS API.
- Implemented log4J,Session Handling
- Implemented Selenium Framework which will be helpful for capturing the testcases and recording it and to playback it again instead of using OATS of using licensed version by parsing the data.

2015-09 - 2017-05

Software Engineer

Attra InfoTech Pvt. Ltd

Project Title:MVisa Acquiring
Client : SBI, AXIS Bank
Technologies Used: Java, Restful Web Services, Spring MVC, Spring Security, Hibernate, MYSQL
Description: M Visa Acquiring application is built-in java.It is a banking application to give the demo for SBI, Axis banks majorly where the merchant will register in the agent portal and once the merchant is registered through the app.It will register that merchant in the VISA API and once all the documents got approved then the agent gives the permission to the merchant all access for transactions.Merchant must pay all the amounts or money directly to the agent through the application.
Features Implemented:.

- Implemented Rest Web Services using Spring MVC Framework.
- Implemented log4J logger files to track all the warnings, errors and Information.
- Implemented Session Handling throughout the application by making Session ID unique.
- Used JSP, Ajax for client side and server-side validations respectively.
- Used SOAP UI tool to test the developed REST end points from Chrome.
- Created SQL Stored Procedures and functions to perform back-end database operations.

Project Title : Hydra Project# 4 : Oct 16 to March 17.
Client : Synchrony Financial Bank (US) (SYF)
Role : Python Developer
Technologies Used: Pandas using Data frames, Openpyxl Environment: Anaconda, Spyder, Python 2.7
Description: Synchrony Financial Bank is an US retailer bank.
Normally the bank must generate its financial year- End reports and it must submit to the US Government based on financial calculations.
PPNR Bank performance is highly influenced by the ability to match resource allocations (capital and human) to forecast changes in business environment externally and internally.
Features Implemented:.

- Complete Development of the project from the scratch for report generation through excel handling concepts.
- First input data (Source Data) is taken from the client in the excel and converted the

whole excel data into binary format by reading each shell of excel.

- Now the whole data and values are secured by converting them into binary format throughout the application we transfer source data in binary format only to secure the data.
- To read that binary formatted data we also converted the data to the Human Readable file also.
- All the calculations were done through the binary formatted file and the output were generated into excel files again.
- Huge amount of data takes time.
- So, through batch files we tried to reduce time and a lot of optimization of code is done.
- Pandas is the framework used for the project to read the data from excel and creates a temporary table like data frames.
- So, it is easy to read/write the data based on indexing and row and column level mapping.
- Openpyxl framework is used for converting the source data to binary format.
- Proto buff is like data structure of JSON format how we use in java to define.
- What is the data type in the shell which is introduced by Google for the first time implemented by us in python with client permission to read the data in the secure format only.
- Majorly worked in modules like PPNR (Pre-Provision Net Revenue), RSA, RWA and Capital Plan Reporting.

Project Title : Time-Sheet & Proficiency Management System (Internal Projects)
Client : Attra InfoTech Australia
Role : Java Developer (Back-End Developer)
Technologies Used: Java, Restful Web Services, Spring MVC, Spring Security, Hibernate, MYSQL
Description: Employee time-sheets may contain a detailed breakdown of tasks accomplished by the employee.The information can be used for project costing, job estimation, tracking, management, client billing and payroll.
Features Implemented:

- Implemented Rest Web Services using Spring MVC Framework.
- Implemented Spring Security,Log4J,Session Handling.
- Created SQL Stored Procedures and functions to perform back-end database operations.
- Fixed Bugs during all phases of testing.
- Integrated Front-End and Back-End Code using Model Entities.
- Maintained all the configurations in .config files and properties of all HTTP URL's in all properties files and calling through Rest End point.
- Used JSON Objects to communicate or transfer the data from front end to back end or from back end to front end.

Project Title : Electra Ecomm [Card & Payment].

Client : MasterCard, Pune.
Technologies Used: Java, JSP, EJB 3, Eclipse, WebLogic, Oracle.
Description: Electra Ecomm is MasterCard project has three products are EPG, MPI, ACS.Payment Gateway is a secure, online, real time payment processing solution that supports card payments for e-businesses and online retailers.PG facilitates the transfer of information between a payment portal (such as a website, mobile phone or interactive voice response service) and the Front-End Processor or acquiring bank.PG is part of the Acquirer domain.The MPI is a software module which receives the card holder details from the Payment gateway and queries card issuer in directory server like Visa/MasterCard etc.To determine the ACS address of the issuer.Once the MPI gets the ACS URL, it forwards the authentication request to the ACS.ACS is used for card holder authentication.Authentication can be done with various methods like username/password or OTP verification depending on the association mandates for national as well as international cards.
Features Implemented:

- Coordination with onsite team and client.
- Bugs tracking and fixing issues in key modules and Involved in the Analyzing the issues.
- Worked in SVN Code Sync Up.

Additional Information

Accomplishments:

- "Star of the Cadence" award for 2020 award from NCR.
- "Rising Star award" for the best performer of PI-2 (2019) awards from NCR.
- Best performer Award for the best performer of 2019 awards from NCR.
- "Rising Star Award" for the best performance of year (2016) awards from Attra InfoTech Pvt Ltd.
- Spot Award in the month of November 2016 for best performance from Attra InfoTech Pvt Ltd.
- Excel Award in JAVA/J2EE in Attra.
- Pearson Versant certified with B2 grade.
- Won 1st prize and a Rewarded with amount of money in Robotic construction and task completion.
- Won many prizes and gold medals in inter school games in cricket, kabbadi, basketball.
- Won 1st prize in Essay writing competition in 5th class held by HDFC life insurance.

Declaration

I hereby declare that all the details furnished above are true to the best of my knowledge and belief.
NITHISH KUMAR