

# PARIKSHIT SUNIL DESHMUKH

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## SUMMARY

**Full Stack Software Developer (ORACLE Certified JAVA Professional)** with **3 years and 6 months** of experience in all phases of software development with Agile Methodology. Proficient at development in Java/ J2EE, SQL, REST API, JavaScript, Python and multiple technologies including Maven, Git, Machine Learning (TensorFlow, Keras, Deep Learning), Data Mining and Data Analysis.

## EDUCATION

### University at Buffalo, State University of New York

Aug 2017-Feb 2019

- MS in Computer Science & Engineering

**Courses:** Analysis of Algorithms, Machine Learning, Data Mining, Computer Security, Data Intensive Computing (Big Data)

### Nagpur University, India

July 2009 – Aug 2013

- Bachelors of Engineering

## TECHNICAL SKILLS

- Languages** JAVA (Oracle Certified JAVA Professional 7), MySQL, Python, TensorFlow, Django, R, JavaScript, JQuery, JUnit
- Databases** MySQL, DB2, MS SQL Server 2008/2012, PostgreSQL, Oracle PL/SQL, JDBC
- Web** Bootstrap, JavaScript, REST Web Services API, Amazon Web Services S3 (cloud), HTML
- Tools** Git, Maven, IntelliJ Idea, Eclipse, Docker, R Studio, Pycharm, PGAdmin, Visual studio
- OS** Unix, Linux, Mac OS
- Other** IBM WebSphere Application Server, Machine Learning, Data Mining, JIRA, Scrum, Agile, Waterfall methodology

## WORK EXPERIENCE (Software Developer)

### Cognizant Technology Solutions

Jan 2014 – Oct 2016

- Architected and developed insurance applications for Liberty Mutual Insurance, USA in **JAVA, Struts2 MVC, JavaScript** and **MySQL** for integrating and managing the insured and potential customers' data in MySQL database. Used and configured IBM websphere application server for managing JDBC connections and thread pool.
- Wrote complex SQL queries for performing various CRUD operations, And, functions and procedures in **PL/SQL** for integrating applications with databases like MySQL,DB2, MS SQL Server using **JDBC** API. Wrote entity-wise POJO classes.
- Utilized **JavaScript** and **JQuery** for validating the input given to the user interface and **JUnit** for testing functionalities of module
- Consumed and wrote **RESTful** web-services API using JAX-RS for providing the data to Underwriting vendors
- In-depth Knowledge of Core Java focusing on concepts like Multithreading, Exception Handling, File handling, I/O, Generics, Data structures, Collections, Garbage Collection with strong OO fundamentals.
- Automated Geographic refresh monthly process and optimized the PL/SQL procedure's run time by **20%**
- Migrated the huddle meeting's task tracker board from Ms Excel to web-application which saved **30- 40 %** time for huddle meetings
- Enhanced "MyPay" application for Cognizant employees to manage their financial section. Revamped using JAVA and JavaScript, and programmed extra functionalities to the application for tax management.
- Followed **Agile** Methodology and used JIRA as Scrum management tool. Supervised a team of 3 new hires.
- Remedy **Ticket Classification (Python, Multinomial Bayesian Network, TF-IDF)**: Built a Python module for a remedy system to intuitively classify the issue tickets raised by the users and allocate it to the respective operator handling that particular category of issues, which reduced manual efforts by **30-40%**.

### The Advisory Board Company

Oct 2016 – Jun 2017

- Designed algorithms and configurations in JAVA for processing the member (patients) data based on the business requirement and loading it into PostgreSQL database; And, also feeding it to the front end for Care Managers to manage the patient's data
- Automated the process of Quality Assurance Workbook generation by processing the incoming data, filtering it and populating the QA excel workbook, and sending mail with summary to the business analysts (**+40% efficient**) using **Maven, JAVA and SQL**

## PROJECTS

- Knowledge Transition for new employee (JAVA, Bootstrap)**: Architected and developed a module in STRUTS2 and Bootstrap framework for on-boarding of the new employees in project which reduced human efforts by **40-50%**.
- Social network Application (JAVA, REST API)**: Developed a small scale social networking application using RESTful web services API using JAX-RS
- Predicting Airlines delay and the best airport to fly out from (Python, AWS S3)**:
  - Performed Exploratory Data Analysis on the airlines dataset for multiple years and extracted the relevant features
  - Built predictive models on the pickled datasets using Naive Bayes classifier and Logistic Regression on top of Gaussian Basis functions and validated using Early Stopping method
- Learning to rank on query-URL pair for Information Retrieval (Python)**:
  - Performed predictive analysis on Microsoft LETOR 4.0 dataset using Closed form solution and Stochastic Gradient Descent algorithms to gain the minimum RMSE of 0.5.
  - Incorporated Gaussian Basis function to deal with nonlinear data and, Early Stopping for the most optimal solution.
- Digit classification (Python, CNN, Tensorflow)**: Built and trained a logistic regression and CNN model for classifying handwritten digits and achieved accuracy of **99% using CNN** model.
- Messenger (Python)**: Developed a web-based messaging application using Python and Flask; deployed on Docker.