varshakatariya0604@gmail.com   **VARSHA KATARIYA**   github.com/varshakatariya

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Objective: To work as a software development engineer at an organization to develop, collaborate and build highly scalable robust and secure distributed systems.

Education:
- **Master of Science in Computer Engineering – San Jose State University**   **Dec 2019**
- **Bachelor of Engineering in Computer Science – University of Pune, India**

Skills:
- **Programming:**   Java, C++, JavaScript, PL/SQL, C, Schell Scripting using VI editor
- **Web Technology:**   Angular, Node JS, React JS, Redux, Express JS, PHP, AJAX, HTML, CSS, Mocha, Kenex JS, Passport JS
- **Framework:**   Spring 4.x, JPA/Hibernate, Struts, JSP/Servlets, SOAP/REST, Junit, Zookeeper/Kafka, Flask
- **Database:**   Oracle/SQL, MySQL, DB2, Mongo DB (Mongo Atlas, mlabs), Elastic Search, Redis
- **Servers:**   AWS, Nginx, Apache, Tomcat 7.0, WebLogic 12.x, Heroku, 000Webhost, Docker, Kubernetes
- **Methodologies:**   Agile (Scrum), Waterfall.
- **Tools:**   Git, Maven, NPM, CI/CD Jenkins, Bamboo, SVN, Crucible, Gerrit, Jira, Subversion, ANT, Bamboo, Sonar, QC, JMeter, Soap UI, Postman, IntelliJ, Eclipse, WebStorm, PyCharm, Anaconda, UML, Grafana, Kibana
- **Operating Systems:**   Linux, Unix, Windows, MacOS
- **Data Science:**   Machine Learning, Data Mining, KNN, K-means, Bayes Theorem, Bayesian Beliefs Network, Perceptron, Decision Trees, Linear Regression, NumPy, Pandas, Python

Professional Experience:

1. Software Development Intern at Nutanix: **Sep 2019 - Dec 2019**
- Revamping of chatbot across Nutanix for various regions. This chatbot is integrated with slack to assign tickets to SRE engineers. This project is using NodeJS library with slack interface. The tickets information is collected from Salesforce REST API and MongoDB is used to save the data. My task is to make same code base for various regions using Factory Design Pattern. This design will be served has one single codebase across various regions and need to only update single code base for changes in future.

2. Software Engineering Intern at Visa Inc.:   **May 2019 - Aug 2019**
- Developed a code quality report dashboard for various software applications at VISA according to years and months data. This dashboard has functionality to export as pdf, send notification and pdf attachment in an email to higher management.

3. Member of Technical Staff (MTS) Intern at Nutanix: **Feb 2019 - May 2019**
- Analysis of system usage using various metrics generated during test run. The task was extract data from flask application and put into Elastic search database to show time series graphs on Grafana dashboard.
- Analysis for Nginx vs Apache performance for an API using Lua scripts.

4. Senior Software Engineer at Tata Consultancy Services, India and Mexico   **Oct 2011 - Jan 2018**
- Conversion of an excel database for future risks at Morgan Stanley to web application for risk management and workflow. This resulted in 94 % CSI and performance improved by 25%.
- Redesign of existing Flex application of Tax Technology in Morgan Stanley to single page responsive application using Angular JS resulted in performance by 22%.
- Internationalization of existing contact page for KLM Airlines and developed web services for Mobile and web application using REST API. This resulted in increased 96% CSI for various language support.
- Redesign of existing ba.com to Angular JS, Bootstrap, Spring/Hibernate, REST API framework
- From scratch development of Neotel telecommunication POS system using JavaScript, struts, Oracle, PL/SQL and Geneva.

Academic Projects   **Jan 2018 - May 2019**
- **Artificial Intelligence in Fashion Industry:** An ongoing project to recommend matching outfits and accessories for the selected clothing in online shopping system using machine learning and deep learning algorithms.
- **Spot Me (Idea Labs):** A project to predict available space in garage using machine learning algorithms. AWS EC2 instance is used for deployment. Worked mainly on pre-processing of data which increased accuracy more by 20%.
- **Simulation of Fandango and Freelancer web application:** Developed an online movie ticket booking system and hiring system using 4 tier architectures. The technical stack was, React and Redux for front end, Redis caching for front end data, Node JS for backend REST API, Kafka for messaging system, Mongo DB for storing all movies data and MySQL for storing user data. The bCrypt library used for encryption. The Single sign on feature implemented using passport.js and performance was tracked using JMeter, Mocha.
- **Enterprise Marketplace:** Developed a web application using PayPal & Facebook OAuth, PHP, Cookies, session management and CURL. OAuth reduced 60% of traffic for user login and cookies helped to show recently viewed items.

Hackathon Projects   **Mar 2018 - Dec 2018**
- **Winner AT&T Hackathon:** Developed a web application to capture human expressions while watching AT&T Advertises.
- **General Electricals' Predix IoT Smart City Hackathon at San Diego:** Emergency services web application to alert city people on earthquake, flood and accidental traffic situation and route direction using GE Predix Sensor data and services.

Certifications, Awards, Achievement: **Oct 2011 - Jan 2018**
- Java 1.6 Oracle Certification (OCPJP), HTML5 and CSS3 Microsoft certification.
- 'Technical Excellence' award, 'On the Spot' award, 'Best team' award, 'TCS Blitz' award, 'Star Performer', 'Start of the Month', 'Dedication to Service' award.