**Sunil Tiwari**  +1- 669-213-7162

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**Education**

**San Jose State University, San Jose, CA**

Master’s of Science in Software Engineering with specialization in Cloud Technology **GPA: 3.76**

**Key Coursework:** Data Structures & Algorithms, Cloud Technology (AWS & GO), NoSQL DBMS

**Research Assistantship:** Clustering of semiconductor machine logs by creating a java based rule engine using an Apache Spark Framework. I am further integrating it with Machine Learning libraries (MLlib) of Spark.

**Vivekanand Institute of Technology, Mumbai, India 2011**

Bachelor of Engineering in Information Technology **GPA: 3.70**

**Skills**

**Languages:** Java, JavaScript (ES6), NodeJS, ReactJS, Redux, SQL, Android & iOS app development

**Technologies:** Docker, Heroku, Amazon Web Service (AWS), Express, NoSQL (MongoDB, Cassandra)

**Other technical skills**: Design Patterns, Data modeling, Algorithm design, Distributed Systems, Unix Shell Scripting

**Key Academic Projects**

**Dropbox clone: Created a file sharing app using MERN stack (REST API) 2017**

* Created a file storage and sharing app using MERN stack(Dropbox clone) and tested using JMeter and MochaJS.
* Users can create account, upload file, share file, create group, and generate user activity report as well.

**Multi-Tenant, Cloud Scalable, Multi-AZ - SaaS Application for automatic UML generator (AWS & JAVA) 2017**

* Created a Multi-Tenant SaaS application to generate UML diagrams from Java Source code. I used Amazon RDS and Node JS in this application and deployed it using AWS Elastic Load Balancer.

**3-Tier Web application for online coffee ordering portal (REST API & Heroku) 2017**

* Created a Multi-Tenant RESTful API (Starbucks) to order coffee. I created the application stack of Node JS and a 3-node MongoDB Cluster for each tenant. I routed the orders using KONG API Gateway and 3-node Cassandra cluster. This application was deployed on Heroku.

**Java Based application for Gas Station (JAVA Design Patterns) 2017**

* Created a JAVA based application to simulate a gas station using 4 design patterns including Chain of responsibility, State, Strategy and Observer patterns.

**Android App:** Calculator and Weather app (using API’s from <https://openweathermap.org/api>) **2017**

**Work Experience**

**Software Consultant, Deloitte Consulting India Pvt. Ltd. Mumbai, India 2013 - 2016**

**Full stack application development for Madison Square Garden Company (MSGC)**

* Developed a cross platform integration service in order to create a data warehouse and tableau reports spanning different subject areas.

**Data mining & visualization system for Kentucky Health Benefit Exchange (KYHBE)**

* Created infrastructure to integrate data from web services, website and legacy system for organizational and federal reporting.

**Development of automated data flow and quality improvement system for Pfizer**

* Created a Unix based file audit system to parse different file extensions from various sources.
* Developed scalable, distributed system to process heterogeneous data collected from twelve different countries and loaded them into data marts

**Development of scalable, distributed data processing system for CNO Financial Group**

* Created & optimized a parallel data processing system to process huge volumes of client data

[**System Engineer, Tata Consultancy Services, Mumbai, India**](https://www.tcs.com/) **2011 - 2013**

**Full stack application development for ING Bank**

* Developed a full stack application for ATM machines of ING bank. I also analyzed card transactions to detect fraud and mine spending patterns

**Achievements in Software Project Competitions**

Reached semi-finals in a national level competition, [**TGMC by IBM**](http://www.tgmcindia.com/) for building a secure online voting portal **2011**

**Other Achievements**

Awarded “Best Content” at ICSTAE (an international conference) for a technical paper on “[**3D modeling**](http://ijmas.iraj.in/paper_detail.php?paper_id=1636&name=3d_Architect:_An_Automated_Approach_To_Three_Dimensional_Modeling)“ **2015**

Received “Outstanding Employee” award at Deloitte  **2016**