# SHAILESH GOEL

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#### **EDUCATION**

- Masters in Computer Science Rutgers University, New Brunswick, NJ 3.67 GPA [May 2017]
- B.E. in Computer Science & Engineering CCET, Panjab University, Chandigarh, India 3.88 GPA [2013]

#### **TECHNICAL SKILLS**

- Languages: Java (Proficient), C# (Intermediate), Python (Intermediate), PHP (Proficient), SQL (Proficient),
  JavaScript (Intermediate), HTML (Proficient), CSS (Proficient), R (Basic)
- Technologies: Spring MVC, Hibernate, ASP.NET MVC 5, Hadoop, Spark, HBASE, AWS [S3, EMR, EC2], Bootstrap, Git
- Tools: Eclipse IDE, Visual Studio, Sublime Text, MYSQL Workbench, GitHub, Putty, Linux, Microsoft Office

### **WORK EXPERIENCE**

- o Center for Advanced Infrastructure & Transportation, Rutgers University Piscataway, NJ [March 2016 Present]
  - Software Developer & Graduate Assistant
    - US DOT Long Term Bridge Portal
      - Technology Used: C#, ASP.NET MVC5 Framework, MSSQL, JSON, Kendo UI, JQuery, Bootstrap
      - Worked on Area Select and Search Tools using Jquery, Canvas.js and Google Map API.
      - Implementing ETL Process, Database Schema, Stored Procedures and Search Tools for 300 Bridge Parameters of Legacy USDOT NBI Semi Structured Bridge Data.
    - Microsoft HoloLens 3D Bridge Heat Map Data Visualization
      - Technology Used: C#, Unity 3D, Microsoft HoloLens Augmented Virtual Reality Platform
      - Visualized Bridge Deck Parameters as Heat maps on Augmented Virtual 3D Bridge Models.
    - o Bridge Deterioration Modelling and Legacy Data Mining on Bridge NBI data
      - Technology Used: R, Python
      - Preprocessing and Transforming National Bridge Inventory and National Bridge Elements Data
      - Creating Deterioration Model by using curve fitting Weibull Distribution and predicting future Bridge states using Random Forest and Neural Networks.
- Webart Softech Panchkula, Haryana (India)

[June 2013 – August 2015]

- Web Application Developer
  - Vipcars.com
    - Technology Used: Java, PHP, XML, JSON, MYSQL, JavaScript
    - Worked in a team to build, integrate and maintain horizontal services for around 110 multi-lingual associate websites on top of multi-tier Car Rental Broker Management System (CRBMS).
    - Built a real-time XML, JSON data feed aggregator from car rental vendors and used data visualization library to show analysis from 3000 online ad campaigns.
  - o Developed solutions based on PHP Laravel MVC and Wordpress framework.

## **INTERNSHIPS**

o Massive Web User Data Collection And Analysis - Net Solutions India, Chandigarh

[January – June 2013]

- Technology Used: Java, Apache Hadoop, HBASE, Kafka, Tomcat Servers, PHP, JavaScript, MySQL
- Used Kafka and HBASE for storing streaming user click data (5000 hits/second) collected using a JavaScript API.
- Designed ETL process using Hadoop Map Reduce Job to speed up when loading Visualization and Analysis on PHP Web Application.
- Small Business Management & Ecommerce Solution Net Solutions India, Chandigarh

[June – July 2012]

- Technology Used: PHP, Java, Android SDK, HTML, CSS, JavaScript, MySQL
- Developed a Web and Android Mobile Application for small retailers to sell product in localized areas.

#### **TECHNICAL EXPERIENCE**

- Dynamic Topic Modelling Using Latent Dirichlet Allocation Present Graduate Academic Project
  - Studying Evolution of latent Topics in more than 4.5 Million scraped Reuters News Article archives.
- o Faster RCNN with 152 Layer ResNet for Caltech Pedestrian Detection Dataset Graduate Academic Project
  - A Convolutional Neural Network for object detection for a comparative analysis of different ResNet CNN models by benchmarking on naive implementations of CNN like ZFNet and VGGNet.
- Chess Data Map-Reduce Analysis Graduate Academic Project
  - Map-Reduce jobs on 12 nodes of AWS EMR Hadoop cluster to Analyze Win/Lose Pattern on 22 million Chess Games stored as Flat Files in Amazon S3 Storage.