

Employment

Developer BI & A

Target Corporation

July 2013-July 2016

Real Estate Database

- Developed a full stack MVC web application using SQL Server, .Net, C# and angularJs.
- Data normalization to reduce redundancy and increasing access speed.
- Data warehousing and implementation in SQL Server.
- Rest APIs and responsive UI.

Block Group Assignment

- Analyzing guest shopping patterns at Target using distributed database systems.
- Managing large scale data in hadoop for persistency.
- Analysis in in-memory distributed cluster of spark-1.4.

Education

Tempe, AZ

Arizona State University

Fall 2016 – Expected Fall 2018

- Masters in Computer Science, GPA:3.33
- Graduate Coursework: Statistical Machine Learning; Principles of Programming Languages; Distributed Database Systems; Knowledge Representation & Reasoning; Advance topics in Databases;

Bangalore, KA

M.S.Ramaiah I.T

Fall 2009 – May 2013

- B.E. in Information Science, May 2013 GPA:3.53
- UG Coursework: Database systems; DBMS; Business Intelligence; Data Structures and Algorithms; Object Oriented Programming;

Technical Experience

Projects

- **KDD 2016 Paper Acceptance Rank Prediction** (2016). Predicting the ranking of an institution based on heterogeneous data provided by Microsoft Academic Graph API. Used Brown's Simple Exponential Smoothing, SVM Rank and Gradient Boosting Decision Trees to predict ranks and evaluating them using the Normalized Discounted Cumulative Gain.**Python,SQL, Google Big Query**
- **Principles of Programming Languages** (2016). Developed parser and compiler for a python like language in 5 stages entirely written in C.
- **Advance topics in Database Systems** (2017). Implementing spatial indices for a geo-spatial in memory database. Critical analysis of research papers in in-memory database systems.**C++**
- **Distributed Database Systems** (2017). Setting up a 3 node hadoop cluster, and geo-spark for analyzing hot spots for cab drivers in a city. **Scala**

Additional Experience and Awards

- **Pyramid Award at Target:**for developing and automating Vendor Income Analysis faster than designated time period saving 100 hours of manual effort every month.
- **Partner's Award:**at Target for Vendor Income Analysis.
- **Research/Travel grant reviewer-GPSA:** Reviewing and approving grant applications from candidates in research.

Languages and Technologies

- C;C++;Python; C#.NET; SQL; JavaScript; AngularJs; JQuery; R; HTML5; CSS3; d3.js; postgresql;
- Vim; Visual Studio; Microsoft SQL Server; Teradata;WebStorm; PyCharm; IIS; Linux power user;

Portfolio Website¹

¹www.nakulchawla.com