# Nakul Chawla

Graduate Student · at ASU

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*"Never argue with data."*

## About Me

I am currently a full-time student at Arizona State University (ASU) at Tempe, Arizona. I am scheduled to graduate in May 2018 with a degree in Master's in Computer Science. Previously, I was working with Target India Corporation at Bangalore as a Developer in Business Intelligence and Analytics for 3 years. I have a 2-year experience in developing web applications at Target. I was responsible for developing full stack web applications. My responsibility as a web developer ranged from designing/warehousing the database that would support the application, developing REST APIs and building responsive User-interfaces. The application I worked for the longest period in my experience involved cleansing and normalizing data using complex SQL queries, warehousing and designing the database in SQL Server, the services and APIs in .Net/C#, functionality in angularJs and the front end design in HTML5,CSS3, twitter-bootstrap. I have spent a large part of my time designing web pages for the clients, making them very responsive to all platforms and screen sizes. Most of the code was written in C#, where I had segregated the layers in services, model(data and domain layer), and in order to utilize the objects properly, a shared DTO layer. The services utilized LINQ and entity framework and MVC 5.5. The data warehousing included good amount of understanding in data models and normalization concept. I was able to normalize one big table of raw data in 27 normalized tables, and also was able to edit standards for modeling at Target to be able to match the new frameworks in application development. I have 1 year of experience in big data analytics where I developed scripts in python to analyze Guest Shopping Patterns at Target. The project was to map each guest that shops at Target into a polygonal block whose latitude and longitude details are provided by the US Government. At ASU, I worked on a machine learning problem, that had close to 160GB unclean data that was given by KDD Microsoft Graph API. I worked on cleaning and querying this data to prepare it for feature engineering models that we used later.

## Why Me?

I have worked extensively in web development where I developed and maintained loosely coupled multi-tier applications that required Object Oriented programming. I was responsible for managing the full stack along with the configuration and implementation on Windows Server microsoft cloud. I implemented repositories and database factory for database design patterns. For commit and rollback, I implemented unit of work pattern. As for dependency injection, I used Autofac.Since the data was in the most raw form, I had a handful of experience in cleansing, designing the completely de-normalized data that was at many different locations into one normalized ACID database and implementing it into production for the Real Estate Tax team at Target. Since I was a part of a Business Intelligence team in Finance and Marketing, the job required for me to write extensive SQL queries and work with big data on a regular basis. These queries included working on multiple systems and integrating them using APIs or services. I have worked in big data environment where I was required to send close to 75 million records daily from Teradata to Hive using SQOOP embedded SQL queries and then analyzing that guest data using python on pySpark.A lot of this work included working with geospatial data and analyzing guests based on those datasets. systems where I will be working on geoSpqrk to analyze traffic hot spots in realtime in a city. With respect to mapping my work to the agile teams goal, I have used JIRA integrated with hipchat and have experience using Github,MSTFS and other code versioning systems in order to maintain all versions of code.

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