

Employment

Developer BI & A	Target Corporation	July 2013-July 2016
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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.

Education

Tempe, AZ	Arizona State University	Fall 2016 – Expected Fall 2018
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- 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
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- 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

Principles of Programming Lang

- Developed a custom language compiler in 5 stages in C.
- Developed a tokenizer that recognized each token and brought them into context one by one.
- Developed a syntax checker for our custome language.
- Implemented first and follow sets for the language.
- Implemented semantic checker and created recursive parse trees for storing all values.
- Implenented the semantics using the grammar that was formed.

Advances in Databases

- Critically analysing current research papers on in-mememory database systems.
- Working on creating an in-memory geo-spatial database system.
- Key work for our team si to work on spatial indices, implementing quad trees and grids to store the entire area..

Additional Experience and Awards

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- **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

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- 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