Harsha Vardhan Manoj Bikki
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Education
- **Master of Science, Computer Science,** Villanova University**,** (Expected May 2019)
- **Bachelor of Technology, Computer Science**, Shiv Nadar University (August 2013 – May 2017)

Technical Skills
Programming Languages: Java, C#, C, C++, Python, SQL, R, SML, NoSQL, HTML, CSS, PHP, Java Script.
Technologies & Tools: Spring, AJAX, Bootstrap, JSP, VB.NET, Eclipse IDE, ASP.NET
Net beans IDE, Visual Studio, GitHub.

Achievements & Experience
- Merit scholarship recipient of Shiv Nadar University**.**
- **Summer Intern | iFlate Soft Systems | May 2016 – July 2016**
  - Worked with a team on the Incident Management Project. The aim of the project is to deliver a web application to manage healthcare response effectively during emergencies.
  - Worked on Patient Tracking module. Designed and modelled databases to store patient's information. Involved in developing the UI and functionality to track and locate each patient in the facility that helps provide accurate information to families.

Projects
Vehicle monitoring system using IoT
Technology Used: MySQL, Raspberry pi3, Python, Android Studio, Firebase
Developed and designed a real-time system to monitor vehicles and control accidents by alerting users.
- Used **Google Firebase** - real time database to get the vehicle's location coordinates.
- Designed **MySQL** database to store the location coordinates and track the complete trail path taken by vehicle and visualize the path on google maps through the android application.
- Developed the functionality using **Python** to send messages to ERT's including the driver's information and location retrieved on real time from **Firebase** when the user pushes the panic button.
- Developed the Geo-Fencing functionality to allow the users to select a geo graphic boundary on the maps to send alerts when the vehicle goes out of the boundary.

Vehicle accident prevention
Technology Used: JAVA, Android Studio, Raspberry pi3
Developed an accident prevention system using ultrasonic sensors and microcontroller. The basic data collected from the sensors includes the speed of the vehicle and the distance between the vehicles around it.
- The data will be used to calculate the chances of collision and the results are used to alert drivers through a user interface developed using Android Studio. All the data is stored and is visible to users through the android application.
- The data collected by sensors is analyzed by **IBM Watson**.

Music World
Technology Used: **Java with Spring Framework, No SQL.**
Developed an application to store music for user and remove duplicate songs. User can also create own playlists, share albums and have repeat and shuffle options.
- **NoSQL** database to store user data and songs with song details. SHA-256 Cryptographic Hash Algorithm to verify and remove duplicate songs.
- **Java** for back end functionalities and **Spring** framework for communicating with databases and standalone application.

Book Mart Center
Technology Used: **HTML, CSS, Java Script, MySQL, PHP.**
Worked with a group to create an online web application for shopping used books. The aim is to make books available for low prices to everyone particularly students.
- Designed **MySQL** database to maintain user accounts and stored tables related to books information.
- Developed UI for users to login to access their accounts and select various products they like and buy them online. Users can also sell their old books by uploading the related info like description and picture of the book.

Student attendance recording system
Technology Used: **Arduino microcontroller, Windows Form .Net, C#, SQL Server**
- The system developed records attendance of students using RFID tags and the data is available for the user through a desktop application. The data is also exported to excel sheets.
- The application can be used in different scenarios like events, classrooms etc. Related statistics will be performed by the application and useful results will be produced to the user.
- **SQL Server** database to maintain student and class details.