**Neha Gadigi**

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**EDUCATION**

**University of Connecticut**  Storrs, CT

Master of Science in Engineering, Computer Science, **GPA: 3.88/4.0** Dec 2016

Relevant Courses: Web Designing, Data Mining, Big Data Analytics, Software Performance Engineering

**TECHNICAL SKILLS**

**Application Programming:** Python, C#, R, MATLAB, PHP, ASP.NET, ADO.NET, HTML5, CSS, JavaScript, JQuery, SQL, Visual Studio 2015

***Databases:*** MySQL, SQL Server Management Studio

***Domain***: Banking and Insurance services

**Version Control**: GIT

**ACADEMIC PROJECTS**

**Building a physical model for ferroelectrics** (R, Python) Spring 2016

* Data from a large set (32,768) of quantum mechanical calculations is used to parameterize a known physical model using Ridge regression, which can be in turn used to study the material properties.
* The number of calculations, were reduced by exploiting the symmetry of the system to a set of (5,984).

**Scalability of Spectral Clustering** (MATLAB)Spring 2016

* Tested the scalability of Spectral Clustering on a Single machine, and improved its performance from processing 50,000 records to 4,96,000 records, achieved by dividing the computation and performing it sequentially. But have to trade-off between Scalability and time of SC.

**Data analysis on Cancer data** (R, MySQL, HTML5, PHP) Spring 2016 - Present

* Coded an R program to extract target genes for a particular protein using chip sequencing data. Using these target genes planning to improve the survival plot of cancer patients.

**Lapackaas** (SingalR, C#, HTML, JavaScript, JSON) Spring 2016

* Using Microsoft azure services, developed web service which performs basic linear algebraic operations. Developed the front end using html, JavaScript and C# for backend. As a part of this project learned linear algebra that would be very useful for Data Analysis.

**Graph Analysis on GitHub Repository Data** (Python, igraph, MongoDB) Fall 2015

* Social relationships were mined by constructing social networks on GitHub repository data, in order to learn about software projects, behavior of developers and their contribution. The size of the data was 19 GB.

**Execution Time Equation Generator** (Java) Fall 2015

* Developed a software module which can generate the estimated time equation for a given program using computational structure model.

**WORK EXPERIENCE**

***Graduate Teaching Assistant*** (Introduction to computing for Engineering - Python) Jan 2016 – Dec 2016

(University of Connecticut – Department of Computer Science)

* Conducted lab sessions, TA office hours, graded homework solutions and exams.

***Senior Systems Engineer***, Hyderabad, India Sep 2011 - Apr 2015

(Infosys )

Clients: Charles Schwab & QBE Insurance.

* Interacted with the client for requirements, developed and tested new programs.
* Involved in activities like knowledge sharing, mentoring and organizing fun events for the team.
* Awarded “*Rising Star of the month*” and “*Infosys Insta Award*” in a team of 200 members.