

# Venkataramana Hegde

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## EDUCATION:

- Master of Science in Information Technology from **University of North Carolina, Charlotte.** (GPA 3.7/4)

**2018 -2019 (Expected).**

- Bachelor of Engineering in Computer Science from **Visveswaraya Technological University.**

**2009 – 2013**

## TECHNICAL SKILLS:

- **Languages & Frameworks:**

**Java**, J2EE (Servlet, JSP), **Spring**, **Python**, **Flask**, **Android**, **JavaScript**, **Node.js**, **Angular**, **Webservices**, REST Services

- **Database:**

**MySQL**, **MongoDB (NoSQL).**

- **Other Tools:**

**Git**, **Maven**, **Dockers** & Containers, **SVN**, **Eclipse**, **IntelliJ**, **VS Code**, **SOAP UI**, **JIRA**, **Splunk**, **WebStrom**.

## ACADEMIC PROJECTS:

- **Airline Reservation System:**

Web Application facilitates user to search and book the flight tickets along with other features. An enterprise application leveraging the advanced features of **Vue.js** to develop the **User Interface** of the system, Java 's **Spring framework** to develop the **RESTful microservices** and other middleware. The application is backed by **Relational Database MySQL on AWS (EC2, S3).**

- **Network Topology Characteristics:**

Implemented **Graph Abstract Data type** to analyze the five important network topology characteristics such as **Degree**, **Strength**, **Characteristic path length**, **Clustering coefficient** and **Randomness/Scale free** characteristic of a network using **Java** and **JFreeChart**.

- **Hate Speech Detection:**

A system to classify online toxic text comment into categories, developed by feeding the **Bag of Words** to generate **TFIDF** vectors together with **Naïve Bayes-Logistic Regression** to make a strong baseline model. Also, used the **Word Embedding** model as an experimental feature. Developed using **Python**, **NLTK** and **Scikit-learn**.

## PROFESSIONAL EXPERIENCE:

- **Vertex Pharmaceuticals**, Boston, MA. (June 2019 – August 2019)

**Role:** Application Developer Intern

**S:** Worked as an intern and involved in various aspect of application development for Biotech domain, in Agile environment.

**T:** Developing an internal application to facilitate scientists to nominate for annual research award by gathering relevant information.

**A:** Used **Python & Flask** library to implement business logic, **Angular and TypeScript** for UI, the Data storage using **MySQL and SQLAlchemy**.

**R:** The application was developed to the satisfaction of the management within the budget and time.

- **College of Computing & Informatics, UNC Charlotte**, NC (Feb 2018 –Present)

**Role:** Graduate Research / Teaching Assistant

**S:** Working as a Research Assistant, to analyze and design approaches that enable and support **active user interaction** with online video.

**T:** Development of Network based App to Assist Professor for a graduate & undergraduate course.

**A:** Implemented a **Real Time Communication System** to improve the active engagement and analysis of video content, leveraging **WebRTC API** and other open source technologies such as **Node.js**, **Vue.js**, **Media Server**, together with **AWS(EC2, Lambda, DynamoDB, S3).**

**R:** Within six months, delivered a sophisticated multi-user, multi-video interaction system for an e-learning tool.

- **Allstate Solutions Pvt Ltd**, India (Nov 2016 – Dec 2017)

**Role:** Java Consultant

**S:** Worked as a Full stack developer in CommonsRTB team and was responsible for development/enhancement of application.

**T:** I was asked to rewrite a legacy application "Policy View" to overcome maintenance and resource overhead and improve efficiency.

**A:** Designed a **modular, decoupled API's and UI using Java based Spring Data REST and Jersey framework**. Used **React.js** to develop User Interface which leverages the virtual DOM for higher performance. Followed Agile methodology, SCRUM, Pair programming, and Test-driven development process.

**R:** Delivered around **12 REST APIs**, and a prototype of robust User Interface which consumes these APIs and gave a better performance.

- **Capgemini India** (Apr 2014 – Nov 2016)

**Role:** Senior Software Engineer

**S:** As a senior member of the team, was responsible for various tasks which were mainly about the development, enhancement, deployment and improvisation of Web Applications.

**T:** Development of web applications for the clients and improve the performance of the applications.

**A:** Used various technologies to implement the application services and improved the efficiency such as **RESTful Web Services**, **MVC design pattern**, **Java APIs**, **JDBC**, **Servlets**, **Java Collection Framework**, **Exception Handling**, **JavaScript**, **AngularJS**, **Node.js Spring Boot and Spring Batch**.

**R:** Efficiency of the client application were improved, and the improvements were verified using tools such as New Relic and Splunk.