

# Venkataramana Hegde

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## INTERESTS

Web Services, Real Time Communication, Machine Learning & Natural Language Processing.

## EDUCATION

### UNC CHARLOTTE

#### MS in INFORMATION TECHNOLOGY

Conc. In Advanced Data & Knowledge Discovery.

Expected December 2019 | Charlotte, NC

### VISVESWARAYA TECHNOLOGICAL UNIVERSITY

#### B.E in COMPUTER SCIENCE

2009 – 2013 | Bangalore, India

## COURSE WORK

Network Based Application Development

Knowledge Discovery in Database

Natural Language Processing

Intelligent Systems

Algorithms and Data Structure

Applied Databases

## SKILLS

### Languages / Frameworks

Java, JEE, Spring Framework, JavaScript, Node.js, Vue.js, Python, HTML, CSS, Bootstrap, EJS, AngularJS 1.5, WebRTC

### Databases

MySQL, MongoDB

### Web Servers / Application Servers

Apache Tomcat, WAS, WAS Liberty, Node.js Server, Kurento Media Server

### Other Tools

GIT, Maven, IBM ClearCase, SOAP UI, JIRA

## CERTIFICATION

M101J: MongoDB For Java Developers – Offered by MongoDB, Inc.

M101JS: MongoDB for Node.js Developers – Offered by MongoDB, Inc.

## RESEARCH PROJECT

### Video Interaction Analytics & Design |

#### Graduate Research Assistant

February 2018 – August 2018 | UNC Charlotte

- Worked with Dr. David Wilson to analyze and develop a Real Time Communication model for an e-learning research project initiated by National Science Foundation.
- Implemented Real Time Communication using WebRTC API to improve the active engagement and analysis of video content.
- Key technologies used are WebRTC, Vue.js, Express.js, Kurento Media Server and AWS services.

## EXPERIENCE

### Graduate Teaching Assistant | UNC Charlotte

September 2018 – Present | Charlotte, NC

- Working as Graduate Teaching Assistant for the course Network Based Application Development under Dr. Nadia Najjar.
- Assisting the Professor in plan and preparing the course material, grading, and helping students to understand the concepts and clarify their doubts and issues.

### ALLSTAE INDIA | Java Consultant

November 2016 - December 2017 | Bangalore, India

- Worked on the development of RESTful Web Services using the multiple Java based RESTful technologies such as Spring REST, JerseyREST for multiple web applications.
- Worked as the Full Stack developer in the development of agent-based application "PolicyView" using the Java based Spring framework and AngularJS 1.5.
- Involved in the Design and Development process using the Agile Software Development methodology.
- Worked under the extreme programming methodology by following the practice of pair programming, daily standup meetings, and conducting regular unit tests.

### CAPGEMINI INDIA | Senior Software Engineer

April 2014 – November 2016 | Bangalore, India

- Underwent an extreme programming training for 4 months on Java based web technologies, JavaScript, and methodologies of SDLC.
- Worked in the development and maintenance of Java based web applications in the domain of Media and Entertainment for world's one of the prominent media company. Involved in Unit Testing, Peer Testing and Integration Testing activities. Other responsibilities include Analysis of Application Performance, Onsite and Offshore team co-ordination, Bug Fixing and Code Review.
- Involved in the process Code Deployment on the different environments along with the release teams

## ACADEMIC PROJECTS

### Airline Reservation System

January 2018 – May 2018 | UNC Charlotte

- A Web Application facilitates user to search and book the flight tickets along with other features. Technology used are Vue.js to develop the user interface of the system, Java based Spring framework to develop the RESTful micro services.

### Online Student Portal

January 2018 – May 2018 | UNC Charlotte

- An online portal for the students and administrators of the university to manage the student activities such as course registration, building a profile. Technology used are J2EE APIs such as JDBC, Servlet and JSP.

### Hate Speech Detection

September 2018 – December 2018 | UNC Charlotte

- A system to classify online toxic text comment into categories, developed by feeding the Bag of words to generate TFIDF vectors along with NB-Logistic Regression to create strong baseline model. Also, used the word embedding model as an experimental feature.

### MapReduced Distributed Action Rules

January 2018 – May 2018 | UNC Charlotte

- Demonstrated the implementation of MapReduce Distributed Action Rules using the Apriori algorithm. Tools and Technology used are Hadoop, Java, and Cloudera.