VENKATARAMANA **HEGDE**

9539 – G, University Terrace Drive, Charlotte, NC – 28262, Cell: 9803180153
vhegde49er@gmail.com, vshantha@uncc.edu | https://venkyhegde.github.io | https://www.linkedin.com/in/venky-hegde

EDUCATION:

University of North Carolina at Charlotte, Master of Science in Information Technology.   **(GPA 3.7/4)**   **Jan 2018** -**Dec 2019 (Expected)**

Coursework: Network Based App Development, Software System Design & Impl, Intelligent Systems, Natural Language Processing, Applied Database, Algorithms & Data Structure, Human Computer Interaction.

Visveswaraya Technological University, Bachelor of Engineering in Computer Science.   2009 - 2013

TECHNICAL SKILLS:

Languages & Frameworks: Java, J2EE (Servlet, JSP), Spring, **Python, JavaScript, Node.js, Angular, Vue.js,** HTML, **Webservices, REST API**

Database: MySQL, Oracle, MongoDB (NoSQL).

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

PROFESSIONAL EXPERIENCE:

Application Developer Intern,   **June 2019 – August 2019**

Vertex Pharmaceuticals   **Boston, MA**

S. As an intern, learning and involving 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, the portal also collects all required information to **evaluate top** annual research projects.

A. Using **Python** & it's library to implement business logic and services. Developing all device compatible user interface using **Angular, TypeScript.** Leveraging the Data storage and processing using **MySQL** and **Python** SQLAlchemy library.

Graduate Research / Teaching Assistant,   **Feb 2018 –Present**

College of Computing & Informatics, UNC Charlotte   **Charlotte, NC**

S / T. Working as a Research Assistant, to analyze and design approaches that enable and support **active user interaction** with online video. Assisting Professor for a graduate & undergraduate course Network Based App Development (using **Node.js, Express.js, EJS, Mongoose & MongoDB**)

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.

Java Consultant,   **Nov 2016 – Dec 2017**

Allstate Solutions Pvt Ltd   **Bangalore, India**

S . Worked as a **Full stack developer** in CommonsRTB team. I was responsible for developing APIs, enhancing the features of existing applications, developing the prototypes and coordinating with other teams to perform day to day activities.

T. One of the major projects I involved was to **rewrite** an agent based legacy application "Policy View" to overcome maintenance and resource   overhead to improve efficiency of the system.

A . Follow the best practices of **SDLC** to design a modular, decoupled API's and User Interface using Java based **REST** frameworks such as **Spring Data REST and Jersey**. 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. We delivered around 12 **REST APIs**, and a **prototype of robust User Interface** which consumes these APIs to give better performance over existing system.

Senior Software Engineer,   **Apr 2014 – Nov 2016**

Capgemini India   **Bangalore, India**

S / T. Over the period of two and a half years, I took up various tasks which were mainly revolved around the **development, enhancement, and improvisation of Web Applications**. I was also responsible to take active part in the deployment of certain applications along with CloudOps team.

A. Implemented the **RESTful Web Services** following **MVC design pattern** for new features which had to be integrated. Extensively utilized the **Java APIs** and concepts such as **JDBC, Servlets, Java Collection Framework, and Exception Handling.** Took the responsibilities of delivering small scale seasonal Web Applications using **JavaScript, AngularJS, and Node.js** for the client. Utilized the advanced features of **Spring Boot and Spring Batch** to implement **News Content API** and **centralized Single Sign-on system**.

R. We used tools such as **New Relic** and **Splunk** to measure and report performance, which showed that improvements and enhancements we implemented to our client application were helped to gain the efficiency and serve the customer better.

ACADEMIC PROJECTS:

Airline Reservation System: **Java, Spring, Node.js, Vue.js, Webpack, MySQL, AWS (EC2, S3)**

- 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.**

Network Topology Characteristics: **Java, JFreeChart**

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

Hate Speech Detection: **Python, NLTK, Scikit-learn**

- 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.