

# RAMA SOMESWAR CHITTELLA

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## SUMMARY OF QUALIFICATIONS

Working on systems designed using C, C++ and Java. Utilizing Microsoft office tools for accounting reports, project presentations and marketing. Excellent interpersonal and communication skills, quick starter and good at solving complex problems.

## EDUCATION

### Masters of Science in Computer Science

August 2017- May 2019(Expected)

Wright State University

*Relevant Courses:* Database Systems, Information Retrieval, Distributed Computing, Semantic Web, Knowledge Graphs

### Bachelors in Technology in Computer Science

June 2013- May 2017

GITAM University, VISAKHAPATNAM, INDIA

*Relevant Courses:* Data Mining, Software Engineering, Artificial Intelligence, Computer Networks, Java, Operating Systems, Data Structures

## PROFESSIONAL EXPERIENCE

### Graduate Research Assistant

March 2017-Present

#### WSU DATA SEMANTICS LABORATORY

**Investigate and Develop Methods for navigation and visualization of large knowledge graphs and review of literature**

*Technical skills used: Python, Sparql, Flask, Jinja2, RDF, Turtle, Apache Jena Fuseki*

Developing a front end web service using flask to run sparql queries on the flask server linking the graphs in the apache jena fueski server to it.

Studying various RDF Graphs and its serialization format "Turtle". Using D3 to visualize the data obtained after querying.

### Summer Internship Program

May 2016-June 2016

Hewlett Packard Enterprise

Sales Encore

*Technical skills used: Java, MySQL, JDBC, JSP*

Focused on implementing our experience in Java, JDBC and MySQL. Completed a project on creating a database for a car company. Selected as team leader, to ensure that project phases are completed within deadlines

## TECHNICAL EXPERTISE

- Programming Languages : C, C++, Java, JSP, Python, Javascript,
- Database : Oracle, Microsoft Access, MySql, Sql, Firebase
- Web Servers : Apache Tomcat, Apache Jena Fuseki
- Technologies & Frameworks : Flask, Jinja2, AndroidStudio, HTML, CSS
- Semantic Web : SPARQL, RDF, Turtle

## ACADEMIC PROJECTS

### Simple Search Engine and Text Mining

January 2018-April 2018

*Technical skills used: Python, NLTK, SCIKIT, Chi-Square, Mutual Information, K-Means, hierarchical clustering*

- Performed tokenization, preprocessed the extracted data and indexed it. Also developed inverted index for each document, sorted all terms and stored them to a pickle file
- Performed classification on data using Chi- Square method and Mutual information methods followed by clustering using K-Means and Hierarchical Clustering methods. Implemented Boolean model for query processing and arranged documents in order of scores obtained from TF-IDF and cosine similarity values.

### Banking Database System

August 2017-December 2017

*Technical skills used: Java, JSP, MySQL*

- Developed a banking database system to create an account for a customer. Access is given to a banker who can create and manipulate the data in customer and account tables..
- The admin is given the access only if the authentication is successful in order to view the actions performed in the log table

### Web Services for Telemedicine DBMS

July 2016- April 2017

*Technical skills used: Java, JSP, MySQL, HTML, CSS*

- Integrated web data services that satisfy fast response time for large scale Tele-health DBMS. Created a database for 4 modules and focused on database fragmentation, network sites clustering .
- Reached the end-goal of solving challenges such as failure-handling, load-balancing and data consistency. Improved the speed of data search and response rate for large scale Tele-health DBMS.