

# HARSHA H L

Bengaluru, Karnataka  
linkedin.com/harsha-hl

harshahl.cs20@rvce.edu.in  
github.com/harsha-hl

7676213214  
www.harsha-hl.com

## EDUCATION

### ***B.E. - R V College of Engineering***

Degree in Computer Science and Engineering, CGPA : **9.79**

Bengaluru, Karnataka  
2022 - Present

### ***Grade 12 - Deeksha CFL PU College***

Degree in Computer Science, Percentage : **95**, KCET Rank : **27**

Bengaluru, Karnataka  
2018 - 2020

### ***Grade 10 - Carmel School***

Best Outgoing Student, Percentage : **94.8**

Bengaluru, Karnataka  
2016 - 2018

## WORK EXPERIENCE

### **Project Intern**

*HPCC Systems - LexisNexis Risk Solutions USA*

Bengaluru (Remote)  
Nov 2022 - Present

- Developing a **distributed parser** for the **Bitcoin blockchain network** using Enterprise Control Language (ECL), for handling **large amounts of data** on the HPCC Systems Platform.
- Optimising cluster configuration for better distribution of load across all nodes of the cluster.
- Writing documentaion for ECL syntax and usage of parser (**open source**).

### **Research Intern**

*Reshamandi*

Bengaluru (Remote)  
Jan 2022 - Nov 2022

- Lead the spring boot development team that worked on **knowledge graph database analytics**.
- Analysed company data and transaction statistics to help identify potential customers, top selling products, and maximise profits.
- Worked on technologies like **Neo4j, Cypher, Spring Boot, AuraDB** and developed a website to visualise this data using chartJs library support.

## TECHNICAL SKILLS

Languages:	C++ (STL), Python, Java, JavaScript, SQL, ECL
DBMS:	MySQL, MongoDB, Neo4j
Development Frameworks:	MERN, Flask, Django, Spring Boot, jQuery
Technologies:	Git, Full stack development, Blockchain, Distributed Systems
General:	Algorithms, Data Analytics, Development, Competitive Coding

## PROJECTS

### **Chemistry Experiment Visualizer using NLP**

Developed a Natural Language Processing based model for converting paragraphs of text to image slideshows, for visualizing chemistry experiments. A knowledge base comprising standard chemistry experiments was built and model was tested against experiment types like Salt Analysis, Titration etc.

### **Smart Home Automation Device using Raspberry Pi and Arduino Uno**

Developed an automation device capable of detecting intruders, gas leakage and providing alerts using a chatbot on telegram groups. Lighting controls are also provided with features like real time weather report. Interfacing done with a 7 inch LCD touch panel. Published an IEEE paper in ICDD'S'22.

### **Lossless File Compression using Huffman Coding**

Developed a web application using Flask, capable of compressing text based files by using the concept of Huffman Coding. Prefix codes computed in real time are used to encode the file and reduce its size.

### **Real Time Visualization of Code Execution and Datastructures**

Developed a React web application capable of visualizing the code input by user as it gets executed step by step. Support for data structures like trees, linked lists, queues, stacks etc.