

# PHANENDHAR REDDY KUSUMA

✉ [phanendharreddykusuma@gmail.com](mailto:phanendharreddykusuma@gmail.com) | 📞 +1(551) 328-1845 | 📍 Jersey City, New Jersey  
| 📁 [Portfolio](#) | 🌐 [LinkedIn](#) | 🐙 [Github](#) | 📖 [Leetcode](#)

## Education

### Wilmington University

New Castle, Delaware

Masters in Information System Technologies

Coursework Undertaken: Data management, Analysis modeling and design, Data communications and networking, Project and change management and Cloud management.

Aug 2023

### Jawaharlal Nehru Technological University, Hyderabad

Hyderabad, India

B TECH in Computer Science and Engineering

Coursework Undertaken: Object-oriented programming, Database management systems, Data structures, Software engineering, Design and analysis of algorithms, Java programming and Machine learning.

July 2018 - Aug 2022

## Skills

Programming Languages : Java, Python, C, Golang, C++, Rust.

Front End Development : HTML, CSS, JavaScript, React.

Back End Development : MySQL, Spring.

Tools : Git, Eclipse, Maven, VS Code, Spyder and NLTK.

## Projects

Cyberbullying Detection using Deep Learning:

Python, Spyder & NLTK

- Designed the system architecture using python and deep learning. The system consisted of a data storage layer, a processing layer, and an output layer.
- Developed the data processing pipeline to identify abusive language and identify the targets of cyberbullying. The pipeline included steps such as data cleaning, feature extraction, and training the machine learning models.
- Trained and evaluated the machine learning models to achieve an accuracy of 95% in detecting cyberbullying. The models were trained on a dataset of social media posts and were evaluated using a hold-out set.

Extension of Lexicon Algorithm for Sarcasm Detection:

Python, NLTK & Jupyter Notebook

- Extended the lexicon algorithm for sarcasm detection by proposing a new method for identifying sarcastic tweets.
- Implemented the proposed algorithm in python and evaluated its performance on a dataset of Twitter tweets.
- Achieved an accuracy of 85% in detecting on the annotated dataset, which is a significant improvement over previous methods.

Backend API service for Authorization and Authentication in Golang:

Golang, MongoDB, Postman

- Developed a Golang backend API service for authorization and authentication using MongoDB and JWT.
- Implemented REST API endpoints for user login, logout, user creation, and deletion, with different permissions for admin and non-admin users.
- Tested and deployed the API service using Postman and a local MongoDB database.

## Achievements

IBC Hackfest - hosted by International Blockchain Congress:

November 2022

- Achieved a top 300 ranking among 20,000 participants in the IBC Hackfest entrance test, demonstrating strong proficiency in Polkadot development and application building using substrate.

Software Engineer Virtual Experience - sponsored by JP Morgan Chase:

December 2022

- Worked with Python, Node.js, Git and VS Code to create a visual display of price data for traders, fixing broken scripts and adding unit tests.

Advanced Software Engineering Virtual Experience - sponsored by Walmart GlobalTech:

January 2023

- Implemented a modified head data structure for benchmarking, considering the changes needed to satisfy the heap property and their impact on the heap's behavior.
- Designed the architecture for a dynamically reconfigurable data processor, adhering to good design principles and using design patterns where appropriate.

## Certifications

- ✓ Blockchain Specialization Course: Offered by University of Buffalo and the State University of New York.
- ✓ Java Build Automation with Maven: Instructed by Peggy Fisher through LinkedIn Learning.
- ✓ Cloud Computing with AWS: provided by DevTown in collaboration with Google Developer Student Clubs.
- ✓ Introduction to Data Warehousing: Instructed by Maria Hamilton through Udemy.