

# Suman Mandava

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## EDUCATION

**State University of New York At Buffalo - Buffalo, New York | Master of Science - Expected in 02/2026**

Computer Science - Ai/ML

**St. Joseph's Institute Of Technology - Chennai, India | Bachelor Of Engineering In Computer Science - 05/2024**

CGPA - 8.83

Relevant Coursework - Data structures, Networking , Operating Systems , Discrete mathematics , Design and Analysis of algorithms , computer architecture , Mobile computing , Cryptography , Cloud computing , Internet Programming.

## Projects

- **BOAZ PUBLIC SCHOOL**

- 1) *Super Market Billing Project - [January 2020]*

- Software using C++ user-friendly software for efficient and accurate billing in supermarket environments.

- **ST.JOSEPH'S INSTITUTE OF TECHNOLOGY**

- 1) *Object detection and identification using Machine learning - [Nov 2022]*

- Real-time ML scans, identifies, and analyzes objects in digital/physical environments.
    - Using Opencv.

- 2) *Road Lane Line Detection using Machine learning - [April 2023]*

- Using computer Vision to detects vehicles to maintain in a single lane.
    - The rate of accuracy was 93.8%. For 640 480 frames , the suggested algorithm speed is around 0.18 s/frame.

- 3) *KYC Using Blockchain - [Present]*

- CP-ABE method is introduced to store KYC data in the Blockchain network.
    - Easily accessible and secure with a 25 digit secret key that needs to be entered while accessing the KYC data.

- **COURSERA, Google Data Analytics Capstone Project**

- 1) *Cyclists bike-share case study - [Feb 2023]*

- Implemented all the steps of ask, prepare, process, analyze, share, and act in the study case.

- **LARSEN & TOUBRO TECHNOLOGY SERVICES**

- 1) *Resume Shorter - Reactjs - [June 2023]*

- Efficiently filters resumes based on key conditions which help in optimizing the recruitment process.

- 2) *Video Stream Player - Nodejs & Reactjs - [june 2023]*

- Developed a full-stack video streaming application using Node.js as the backend and React.js as the frontend.

## Internships

**Software Application Developer | 04/2024 – 06/2024**

**Centum T&S – Bengaluru, India**

- Developed a Human Machine Interface (HMI) for metro systems at BMRL and DMRC. Using Protobuf and ZeroMQ, for real-time communication. Created a UI and fault information screen for the DMRC application, along with a settings page allowing drivers to control console brightness, internal and external speakers, and cabin speakers.

**FULL STACK DEVELOPER INTERN | 01/2024 – 03/2024**

**HCL Technologies Ltd - Chennai, IN**

- Into the development of an Online Video Platform(OVP), leveraging React.js for the frontend, Nodejs for the

backend, and MongoDB as the database.

- Implement Material-UI for visually attractive and user-friendly components.
- Create distinct pages for admin and client roles, with the admin having control over movie and user management.
- Develop core functionalities including video streaming, JWT authentication, and user's registration analysis.

**REACTJS INTERN** | 05/2023 - 06/2023

**L&T Technology Services - Chennai, India**

- Developed a full-stack video streaming application using Node.js as the backend and Reactjs as the frontend. The project involved creating a seamless video playback experience with features such as play, pause, volume control, and fullscreen mode.
- Designed and implemented a Resume Shortlisting Application using Reactjs, aimed at efficiently managing and evaluating job applicants resumes.

**SOFTWARE ENGINEER INTERN** | 06/2022 - 07/2022

**ANTS Global Systems Pvt. Ltd. - Hyderabad, India**

- Built visually rich front-end components.
- Demonstrated good logical skills with a self-motivated attitude to learn new things
- Collaborated effectively with team members.

**WEB DEVELOPMENT TRAINEE** | 11/2021 - 02/2022

**Verzeo - Chennai, India**

- Learned to use Reactjs, and CSS to develop an online restaurant website.
- Link - <https://lakkisburger.netlify.app/>

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## Workshops

- **Blockchain Development Workshop [2days] [March-2023]**  
**Vista Convert Services** **Chennai, India.**
  - Basic introduction of networking, Consensus algorithms and peer-to-peer protocols.
  - Fundamentals of Blockchain.
- **AWS Cloud Workshop [3days] [Oct-2022]**  
**Stigmata Techno Solutions** **Chennai, India.**
  - Hands-on experience using compute, networking, storage, and database AWS services
  - Professional experience architecting large-scale distributed systems.
- **Cyber Security Workshop [2days] [May-2022]**  
**Why Global Services** **Chennai, India.**
  - Knowledgeable to use tools like, Nmap and Wireshark.
  - Understanding different types of malware and security breaches

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## Paper publications

- **Resume Shorter using Reactjs**  
*INTERNATIONAL JOURNAL OF NOVEL RESEARCH AND DEVELOPMENT [IJNRD]*  
Paper ID:- IJNRD2308305  
Title of Paper:- Resume Shorter  
Impact Factor:- 8.76 (Calculate by Google Scholar)  
Published In:- Volume 8 Issue 8, August-2023  
Published URL:- <http://www.ijnrd.org/viewpaperforall.php?paper=IJNRD2308305>
- **Road Lane Line Detection Techniques for Autonomous Driving System**  
*INTERNATIONAL JOURNAL FOR MULTIDISCIPLINARY RESEARCH [IJFMR]*

Title of paper-: Advances & Future Directions in Road Lane-Line Detection Techniques for Autonomous Driving system.

Published In-: Volume 5, Issue 5, September-October 2023

Published URL-: <https://www.ijfmr.com/research-paper.php?id=6684>

- **KYC VERIFICATION USING BLOCKCHAIN**

*IEEE Xplore*

PAPER ID: ICIMIA-489

status of publication : On-going.

the paper has been accepted and publication at the ICIMIA 2023 Conference, organized by Dayananda

Sagar College of Engineering, Bangalore

## Accomplishments

- Secured a job offer from Accenture for the position of App Development Associate. Through the recruitment process, I effectively showcased my expertise and skills, underlining a robust foundation in Computer Science.
- My research paper on Blockchain technology has been accepted for presentation at the IEEE Conference hosted by Dayananda Sagar College of Engineering in Bangalore
- Recognized as the 'Best Effort Student' for the academic year 2018-2019.

## Certifications

- **JAVA J2EE** - TalentNext course by Wipro [5/2023 to 9/2023]
- **Data Analytics** - Google Professional Certificate by Coursera [10/2022 to 2/2023]
- **MySQL** - spoken tutorial project by IIT Bombay [February 13th 2023 ]
- **CSS3** - Infosys Springboard [January 19th 2023 ]
- **JAVA** - Spoken Tutorial Project by IIT Bombay [April 6th 2022 ]
- **Reactjs** - Verzeo [11/2021 to 1/2022]
- **Python** - Cisco Networking Academy [March 5th 2021 ]

## SKILLS

- **Programming**
  - Java, C, C++, R, Spring Boot, solidity.
- **Web Technologies**
  - Html, Js, Css3, Reactjs, Nodejs, Handlebars, Bootstrap, CONTEXTApi.
- **DataBase**
  - MySql, MongoDB
- **Tools/Services**
  - Git, Postman, Nmap, Wireshark, AWS, Websockets, RESTAPIs, JSON, Firebase.
- **Languages**
  - Fluent in English and Telugu.
  - German (A2).
  - Hindi.
  - Tamil.