

Kunal Singha

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Summary

Versatile and results-driven Full Stack Web Developer with strong proficiency in the **MERN stack**, dedicated to building dynamic, high-performance web applications. Actively exploring **Blockchain Development** and **Cybersecurity**, with a solid grounding in core **Computer Science concepts** such as **Data Structures, Operating Systems, and Computer Networks**. Known for a strong analytical mindset, clean coding practices, and a commitment to delivering reliable, scalable solutions in fast-paced environments.

Technical Skill

1. *Languages : JavaScript , JAVA , Python, Solidity*
 2. *Frameworks/Libraries : React, EtherJS, Node.js, Express, NumPy, Pandas, OpenCV, Matplotlib, Seaborn*
 3. *Databases : MongoDB, MySQL*
 4. *Tools/Technologies : AWS (EC2, S3), Git, Tailwind CSS, Vite, MaterialUI, Bootstrap, PowerBI, Tableau*
 5. *Other : Debugging, REST APIs, Cross-platform development*
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Projects

1. **Emotion Recognition System (CNN & OpenCV)**

Developed a deep learning model using Convolutional Neural Networks (CNN) for real-time emotion detection from facial expressions.

- Dataset: FER2013
- Tech Stack: Python, TensorFlow/Keras, OpenCV
- Features: Real-time webcam emotion classification and live video inference.

2. **AI Voice Assistant using Python**

Built an intelligent voice-based AI assistant that can process voice commands, fetch information, and respond through speech output.

- Integrated packages: SpeechRecognition, pyttsx3, OpenAI API, Wikipedia, datetime
- Capabilities: Voice prompt recognition, dynamic response generation, and task automation.

3. **Food Pickup Plate**

Developed a web-based platform using MERN stack to allow users to pre-order meals from local food outlets, minimizing wait times and improving customer experience. Integrated secure payment processing and features supporting local vendor visibility and engagement.

4. **MERN File Management System**

Created a file-sharing application with distinct Admin and Employee dashboards.

- Admins: Upload, view, and delete documents.
- Employees: View and download files only.
- Implemented JWT authentication, cookie-based sessions, and file handling using Express and MongoDB.

5. **Vacation Rental Platform**

It is a full-stack web application that enables users to browse, list, and review vacation rental properties. The platform supports secure user authentication, property management, image uploads, interactive location-based features, and a robust review system. Built using Node.js and Express.js, the project follows MVC architecture and leverages modern web technologies for a seamless experience.

More on [Github](#)

Volunteering

1. **Git/GitHub Instructor (Volunteer)** - Event Coordinator - Steigen Carried out sessions to teach juniors the fundamentals of Git and GitHub, covering version control, collaboration, and best practices.
 2. **NCC Cadet (B Certificate Holder)** - Active NCC cadet with a B Certificate; preparing for the C Certificate, demonstrating discipline, leadership, and commitment to national service.
 3. **LinkedIn Student Campus Ambassador** - Represented LinkedIn on campus by promoting professional networking, hosting student awareness sessions, and guiding peers in building strong LinkedIn profiles and digital presence.
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Achievements

1. Achieved **2nd position** in **Big O Coding Event**, showcasing strong problem-solving skills and algorithmic thinking.
 2. Secured **2nd position** in **State-level Kickboxing Championship**, demonstrating discipline, focus, and physical endurance.
 3. Completed a **Workshop on Drone Assembly and Flying** under NCC conducted by Aero Knotz Drones Pvt. Ltd. — gained hands-on experience in building, assembling, and operating drones.
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Education

1. Acharya Institute of Technology (3 year) CGPA: 7.1
 2. XII (CBSE) | Delhi Public School Siliguri 73.6% | 2022
 3. X (ICSE) | Good Shepherd School 79.4% | 2020
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Certification

1. [Data Science Professional Certificate by KNIME](#) - LinkedIn
2. [Docker Foundations Professional Certificate](#) - LinkedIn
3. [Career Essentials in Generative AI by Microsoft and LinkedIn](#) - LinkedIn
4. [Career Essentials in GitHub Professional Certificate](#) - LinkedIn
5. [Google Cloud Cybersecurity Certificate](#) - Google Cloud
6. [Google Cloud Engineering Certificate](#) - Google Cloud