

Kartik

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Education

KIET Group of Institutions

Bachelor of Technology (CGPA: 7.53)

Uttar Pradesh, India

Sept 2024 - Jun 2028

Central Board of Secondary Education (CBSE)

Senior Secondary Percentage: 86 %

Uttar Pradesh, India

Apr 2023 - Jul 2024

Central Board of Secondary Education (CBSE)

High School Percentage: 88 %

Uttar Pradesh, India

Apr 2021 - Jul 2022

Technical Skills

Languages: Python, C, SQL, Bash

Web Development: HTML/CSS, Javascript, React

Tools & Platforms: Git, GitHub, Linux, Supabase, Arduino and ESP32

Projects

Setu-AI

Sep 2025 - Nov 2025

IoT Systems, HTML/CSS, React, REST APIs, Supabase

Role: Software Developer

- Developed an IoT-based structural health monitoring system using ESP32 with accelerometer, strain gauge, and MPU6050 gyroscope sensors to capture micro-vibrations and structural movement
- Streamed sensor data to a server-side analysis pipeline leveraging ML-based classification to assess structural stress conditions and potential risk states.
- Worked on the web-based monitoring dashboard, including CSS styling, user authentication, and UI components for visualizing real-time and historical sensor data.
- Integrated frontend views with backend APIs to display system status and analysis outputs in an accessible format for monitoring use cases.

Captive Wi-Fi Portal Simulation

Aug 2025

Embedded Systems, Networking, HTML/CSS

Role: Embedded System Engineer

- Built a captive Wi-Fi portal using ESP32 to simulate client redirection in wireless networks.
- Implemented DNS-based redirection and HTTP handling to route connected devices to a custom web interface.
- Demonstrated end-to-end understanding of client connection flow, request handling, and embedded web serving.

3-D Blockstack

Oct 2025

HTML/CSS, JavaScript

Role: Developer

- Resolved a mobile interaction issue where a global `touchstart` event listener blocked user access to external links, restoring correct navigation on mobile devices.
- Refactored event-handling logic to separate UI link interactions from gameplay flow while preserving the intended game restart behavior.

Experience

Cybersecurity Intern

June 2025

Gurugram Police

- Applied cybersecurity concepts using tools such as Burp Suite, Autopsy, VirusTotal, and FotoForensics for vulnerability analysis and basic digital forensics.
- Worked on CTF-style exercises simulating real-world attack scenarios, focusing on web security, OSINT, and threat identification.
- Collaborated on cybercrime case studies and public awareness initiatives related to phishing, online and identity fraud.

Achievements

- Secured **Runner-Up** position at **InnoTech'25**, a team-based college-level hackathon, claiming a **INR 5,000 prize** for developing a structural health monitoring system focused on real-world bridge safety and early stress detection.
- Recognized as a **Super Contributor** during **Hacktoberfest** with **6+ accepted pull requests**, gaining hands-on experience in debugging production code and contributing to real-world open-source projects.
- Placed **4th nationally** in the team-based **CRACCON'25 CTF** (DefHawk) among **350+ teams**, applying hands-on skills in vulnerability analysis, reverse engineering, and real-world attack scenario reasoning.

Certifications

Cybersecurity Fundamentals

Apr 2025

IBM SkillsBuild