RIYA SACHDEVA

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EDUCATION

Bachelor's of Computer Science, Vellore Institute of Technology, Bhopal	8.55(CGPA)	2022 - 2026
Higher Secondary Education, Cambridge Foundation School, Delhi	90.2 %	2021 - 2022
Secondary Education, Cambridge Foundation School, Delhi	88.6 %	2019 - 2020

SKILLS AND CERTIFICATIONS

Certifications :
- Blockchain Developer, CEAPBCD1IN, provided by IBMCE
- Blockchain Fundamentals, CEAPBCD1IN, provided by IBMCE
- GEN AI Using IBM Watsonx, CEWXAI1IN, provided by IBMCE
- Introduction to Web Development, Coursera
- Cloud Computing, NPTEL

Technical Skills : SQL, Python, Java, JavaScript, HTML, CSS
Soft Skills : Flexibility, Growth Mindset and Resilience
Subjects Studied: Computer Networks, Object Oriented Programming and Operating System

INTERNSHIP EXPERIENCE

Neurosensum International India Private Limited — Gurugram, Haryana
Full Stack Web Developer — NOV 2024 – JAN 2025

- Revamped the company's outdated WordPress website into a high-performance, modern React-based platform, achieving a 60% reduction in load time, as measured by Google Lighthouse.
- Designed and developed an intuitive admin interface, enabling non-technical staff to seamlessly manage over 50 blog posts and update website content in real time.
- Demonstrated strong responsibility, attention to detail, and effective communication while taking ownership of key development initiatives.

UNIVERSITY PROJECTS

MindCare Alliance
- **Description:** This site focuses on promoting mental health well-being in both rural and urban areas by spreading awareness and providing unique support programs. It includes integrated helpline services to offer immediate assistance. The site is accessible on various devices without any UI conflicts.
- **Technology**: HTML/CSS, JavaScript
- **Team Project:** 5 members
- **Role:** UI/UX designer

Cryptography and Network Coding – Research Paper
- **Description:** Authored a research paper on securing data transmission by integrating cryptography (AES, RSA, homomorphic signatures) with network coding. Achieved zero error rates under attacks with minimal overhead in Python simulations. Proposed scalable solutions for IoT, 5G, and cloud networks, with future directions in quantum and AI-driven security.
- **Team Project:** 8 members
- **Role:**
  - Developed and implemented linear network coding algorithms to improve packet transmission and network throughput.
  - Optimized coding processes to minimize packet loss and enhance retransmission rates.
  - Conducted simulations to validate performance under varying network conditions against traditional routing methods.

Safe Havens Home Security Systems
- **Description:** Developed a home security system using motion detecting sensors, cloud connectivity for camera feed storage, and a buzzer alarm for breach detection. Synced the system on site with a cloud storage which stored the camera recordings that can be accessed and viewed by the owner. The motion sensor switches camera recording on upon sensing activity and breach alarm in case of forced entry or multiple wrong passcodes.
- **Technology:** IoT, Motion Sensors, Cloud Storage, Buzzer Alarm
- **Team Project:** 3 members
- **Role:** Hardware Developer

ACHIEVEMENTS AND ADDITIONAL INFORMATION

Achievements: Ranked among top 2 percent out of 23872 qualified students for **NPTEL Cloud Computing** Certification
Responsibilities:
- Team Lead (PR & Outreach), **iOS Club**, VIT Bhopal University
- Core Member, TechVersity, VIT Bhopal University
- AdVITya (Disciplinary Committee), VIT Bhopal University (2023)

Languages: English, Hindi