

## CHAITANYA KUMAR SAHU

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🌐 [Linkedin](#) | 🐙 [Github](#)

📍 **Location:** Visakhapatnam, Andhra Pradesh

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## PROFESSIONAL SUMMARY

Highly motivated B.Tech Computer Science student with a strong foundation in web technologies and software development. Eager to contribute to innovative solutions and solve complex problems in challenging environments.

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## TECHNICAL SKILLS

- **Programming Languages:** Python(Intermediate), Java (Basics), C (Basics)
  - **Cybersecurity Tools:** Nmap, Metasploit, Burp Suite, OWASP ZAP, Kali Linux
  - **Web Technologies:** HTML, CSS, JavaScript (Basics), FastAPI, Streamlit
  - **Databases:** MySQL
  - **Operating Systems:** Windows, Linux
  - **Version Control:** Git, GitHub
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## EXPERIENCE & PROJECTS

**Hackathon Participant | Amaravati Quantum Valley Hackathon 2025** | Online/Virtual (assuming) | August 28, 2025

- **Project: Secure and Bias-Free Quantum Random Number Generator (QRNG) - "Bits to Qubits"**
  - Led "Hello World" team to develop a novel QRNG using **Quantum Superposition (Hadamard Gate)** for true randomness, addressing Problem Statement PS-1.
  - **Implemented Von Neumann debiasing** to ensure uniform randomness, effectively countering hardware biases.
  - **Engineered a FastAPI REST endpoint with Swagger UI** for real-time, secure access to random bits, enabling easy integration with external applications.
  - **Utilized IBM Quantum backend** (Qiskit IBM Runtime) for true quantum randomness, showcasing a unique advantage over pseudo-RNGs.
  - **Achieved a functional prototype** demonstrating feasibility on simulators and cloud-accessible real devices, with plans for scalability via batch generation.
  - **Tools:** Qiskit, Python, Streamlit, FastAPI, Uvicorn, NumPy, SciPy

## Cybersecurity Intern | Symbiosys Technologies | May 2025 – June 2025

- **Project: Penetration Testing & Network Scanning**
  - Spearheaded penetration testing on Windows 7 & Metasploitable VMs using Kali Linux tools.
  - Executed UDP scans and leveraged over 15 Nmap NSE scripts for comprehensive service enumeration and vulnerability detection.
  - Successfully exploited SMB service (Port 445) using Metasploit, gaining Meterpreter shell access.
  - Configured RHOST, LHOST, LPORT parameters for efficient exploitation.
  - Developed detailed risk analysis reports, outlining end-to-end ethical hacking methodologies.
  - **Tools:** Kali Linux, Nmap, Metasploit, VirtualBox, NSE Scripts

## Cybersecurity Intern | Adiroha Solutions (OPC) Pvt. Ltd. | July 2024 – September 2024

- **Project: Vulnerability Assessment & Penetration Testing (VAPT) of Web Applications**
  - Conducted security testing on login and forgot-password modules of a demo e-commerce site.
  - Identified critical OWASP Top 10 vulnerabilities, including SQL Injection, weak password policies, and user enumeration.
  - Reported significant forgot-password issues (missing token expiry, lack of CAPTCHA, input validation gaps).
  - Proposed practical mitigations such as MFA, rate-limiting, and secure token handling.
  - Documented findings meticulously per OWASP WSTG, assigning severity using CVSS v3.
  - **Tools:** Burp Suite, OWASP ZAP, Postman, Kali Linux, CVSS Calculator, OWASP WSTG

## Facial Recognition Attendance Management System Portal | Diploma Final Year Project

- Designed and developed a comprehensive system for automated student attendance using face recognition.
- Implemented the backend using Python and managed the database with MySQL.
- Achieved automation of student attendance marking, significantly reducing manual effort and improving accuracy.

## Industrial Training in Computer Engineering | Alwardas Polytechnic College (in association with AOG IT Solutions) | Dec 2022 – June 2023

- Gained practical exposure to hardware, C Language, and Python (Core & Advanced).
  - Developed hands-on experience by contributing to real-time mini-projects.
  - Enhanced proficiency in basic programming, system troubleshooting, and software usage.
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## EDUCATIONAL QUALIFICATIONS

### **Bachelor of Technology (B.Tech) in Computer Science and Engineering**

Gayatri Vidya Parishad College for Degree and PG Courses (Autonomous), Visakhapatnam

*Expected Graduation: 2027 | Current Semester: 3-1*

### **Diploma in Computer Engineering (CME)** Alwardas Polytechnic College, Visakhapatnam

*Graduated: 2023*

### **Secondary School Certificate (S.S.C)** Priyanka's Vidyodaya High School, Visakhapatnam

*Graduated: 2020*

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## CERTIFICATIONS

- **Startup Business Management Program** – Ratan Tata Innovation Hub AP (August 20, 2025)
  - **AI Tools & ChatGPT Workshop** – Be10x (August 3, 2025)
  - **HTML for Absolute Beginners** – Traversy Media (Cursa) (July 27, 2025)
  - **Introduction to Artificial Intelligence** – Simplilearn SkillUp–(July 21, 2025)
  - **Artificial Intelligence** – Infosys Springboard (August 1, 2025)
  - **Python Programming** – AOG IT Solutions (June 13, 2023)
  - **C Programming Language** – AOG IT Solutions (April 20, 2023)
  - **MS Office** – AOG IT Solutions (February 25, 2023)
  - **Workshop On Power Python** - LUDIFU (August 2022)
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## ACHIEVEMENTS

- **Science Olympiad Foundation (SOF):**
    - Awarded Zonal Excellence Certificate for outstanding performance in the SOF National Cyber Olympiad (Class 10).
    - Received Certificate of Distinction in the International General Knowledge Olympiad (IGKO).
    - Participation Certificates in multiple SOF Olympiads (Science, Mathematics, Cyber) (Classes 9-10).
  - **Government of Andhra Pradesh:**
    - Received Certificate of Appreciation during Visakha Utsav-2018 for contributions to cultural/tourism initiatives.
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## INTERESTS

Cybersecurity & Ethical Hacking, Exploring New Technologies, Programming Challenges.