

CHAITANYA KUMAR SAHU

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📍 **Location:** Visakhapatnam, Andhra Pradesh

PROFESSIONAL SUMMARY

Highly motivated B.Tech Computer Science student with a strong foundation in Cybersecurity and Quantum Computing, demonstrated through two hands-on cybersecurity internships and a cutting-edge Hackathon project. Proficient in Python, Java (Basics), web technologies, and security tools (Nmap, Metasploit, Burp Suite), along with quantum programming (Qiskit). Eager to leverage strong analytical and problem-solving skills in an entry-level software development or cybersecurity role, contributing to innovative solutions and secure systems.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java (Basics), C (Basics)
 - **Quantum Computing:** Qiskit, IBM Quantum (Runtime)
 - **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

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, Quantum Computing, Exploring New Technologies, Programming Challenges.