

Chirag Prasad

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EDUCATION

Indian Institute of Information Technology, Bhopal

2023 - 2027

Bachelor of Technology in Information Technology (IT)

CGPA: 8.18

Relevant Coursework: Data Structures and Algorithms, OOPs, DBMS, Computer Networks

PROFESSIONAL EXPERIENCE

Grasim Industries (Aditya Birla Group) - Intern

Dec 2025 - Jan 2026

- Built a centralized enterprise **Trainee Tracker application** using **Microsoft Power Apps, Dataverse**, and **SharePoint**, implementing role-based access for **3** user roles (HR & trainees & department) and **4** core modules for trainee management, assignments, progress tracking, and certification.
- Engineered end-to-end certificate generation and assignment workflows using **Power Automate**, integrating Dataverse with Word templates to generate and convert documents into PDF format.
- Reduced manual processing time from **5** minutes per trainee to under **20** seconds (95% improvement) by implementing optimized workflows and enabling real-time monitoring through **Power BI** dashboards.

PROJECTS

ASTRA - Advanced System for Threat Recognition and Analysis

[Live](#) | [GitHub](#)

- Architected a full-stack cybersecurity platform using **React, TypeScript, Vite, FastAPI, PostgreSQL, and Docker**, implementing **3** intelligent scanning modes (Quick, Deep, Custom) to identify malicious APKs and phishing URLs through automated static security analysis.
- Designed a multi-layer threat detection pipeline evaluating **10+** security parameters, processing **50+** APK metadata attributes, permissions, signatures, and behavioral indicators to generate **0-100** risk scores and comprehensive threat reports within **10-25** seconds.
- Deployed secure **RESTful APIs** with **JWT**-based authentication on **Render** and **Vercel**, while crafting a responsive dashboard comprising **12+** reusable React components and persistent scan history management using **PostgreSQL**.

CyberPulse

[Live](#) | [GitHub](#)

- Created and launched a full-stack cybersecurity monitoring platform using **Next.js, Node.js, Express.js, MongoDB Atlas, and REST APIs**, enabling real-time website security analysis with an average scan response time of under **2** seconds.
- Implemented **5+** security assessment modules including SSL certificate validation, DNS lookup, HTTP status monitoring, response latency tracking, and security header auditing, incorporating upto a under **100** risk scoring engine for vulnerability evaluation.
- Delivered an interactive cybersecurity dashboard featuring AI-generated security summaries, PDF security report exports, scan history management, and data visualizations using **Recharts** and **Tailwind CSS**.

SKILLS

Programming Languages: C++, C, JavaScript, TypeScript, Python, SQL, HTML5.

Frameworks & Libraries: React.js, Next.js, Node.js, FastAPI, Express.js, JWT, REST APIs, Tailwind CSS.

Databases: MongoDB, PostgreSQL, MySQL, Firebase.

Tools & Platform: Git, GitHub, VS Code, Postman, Docker, Linux, Render, Vercel, Burp Suite, Power Apps.

ACHIEVEMENTS

- Ranked **1st** in **India Space Week Competition [East Zone]** organized by **ISRO**.
- Placed **4th** at **OWASP BUG Hunting** organized by **MANIT, Bhopal**.
- Achieved **3-star** at **CodeChef** (Max Rating: **1601**) and **1500** Rating at **LeetCode**.
- Solved **450+** DSA problems on **LeetCode, CodeChef** and **Coding Ninjas**.
- Earned **Software Engineer Intern** and **SQL** certifications from **HackerRank (Jan 2026)**.

LEADERSHIP & ACTIVITIES

- Serving as the **Flag Master** for the Cybersecurity Club (**XPLOIT**) at **IIIT Bhopal**. Led and hosted **2 CTF** events with **350+** participants and curated a structured problem set consisting of **20+** Capture the Flag challenges.
- Selected as a **Contributor** for **GirlScript Summer of Code 2024 - Extended Edition**, contributing to open-source projects, collaborative development, and version control using Git/GitHub.
- Contributed to the organizing team of **ARMA CODE 0** — a National Level Hackathon by **IISER Bhopal & IIIT Bhopal** which attracted **100+** participants. Also guided **10** finalists in developing full-stack web solutions.
- Served as **Magazine Editor & Head**, leading a team, overseeing content strategy and execution to deliver **3** magazine editions.