Harsh Singh

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Education

Pimpri Chinchwad College of Engineering and Research, Pune   **2022 - 2026**
B.Engg in Computer Engineering   *8.45/10 CGPA*

Work Experience

Google DSC — CyberSecurity Facilitator-PCCOER   **Sept 2023 – Present**
- Facilitated workshops and training sessions on Cybersecurity topics, mentoring over 100 students.
- Coordinated **5+ events** and **5+ competitions** to promote Cybersecurity awareness.

Zakki (Remote) — Back-end Developer   **Feb 2023 – Jun 2023**
- Designed scalable backend architecture resulting in a **30% increase** in website traffic.
- Enhanced database performance, leading to a **50% reduction** in query time and a **20% improvement** in system stability.
- Collaborated with an international team, ensuring **on-time project delivery** and satisfaction of stakeholders.
- **Technologies:** NodeJS, Express, MongoDB, Postman, RestFUL API

Projects

Creator Central
- This is a complete video hosting website backend with all the features like login, signup, upload video, like, dislike, comment, reply, subscribe, unsubscribe, and tweets.
- Project uses all standard practices like JWT, bcrypt, access tokens, refresh Tokens and many more. We have spent a lot of time in building this project and we are sure that you will learn a lot from this project.
- **Tech Stack:** JavaScript, NodeJS, MongoDB, JWT, Cloudinary, bcrypt

CypherFlo
- Pioneered CypherFlo, a robust encryption and decryption application, employing the modified Blowfish algorithm (ongoing research paper), ensuring maximum data security.
- Crafted and optimized a user-friendly interface using Java Swing, enhancing file encryption and decryption efficiency by 66%.
- **Tech Stack:** Java Swing, JDBC, SHA-256, BlowFish Algorithm

Technical Skills

Languages: Python, Java, C++, JavaScript, Rust
Web Development: NodeJS, NextJS, ReactJS, Express
Clouds & Databases: Google Cloud Platform (GCP), AWS, PostgreSQL, MongoDB
Developer Tools: Git, Docker, Kubernetes, Spring
AI/ML: Numpy, Pandas, Scikit-learn, TensorFlow
CyberSecurity & Blockchain: Networking, Cryptography, Security Analysis, Anchor, Solana
Operating Systems: Windows, Linux

Positions of Responsibility

- Initiated Cybersecurity initiatives as Facilitator at Google Developer Student Club - PCCOER.
- Guided and orchestrated the team as the lead of Google Solution Challenge - 2024 and Smart India Hackathon (SIH) 2023.
- Coordinated and led a Tree Plantation Drive planting over 25 trees under GHMC, Hyderabad.

Awards & Participations

- Achieved runner-up at Spring Hacks by Code4TheFuture.
- Excelled in HacktoberFest-2023 with 8 impactful contributions.
- Attained runner-up at Codecode by IIT-Bombay, outperforming 200+ participants.
- Led team to success in Smart India Hackathon, delivering innovative solutions in social media security.