

# 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:** Java, Spring, MongoDB, Postman, RestFUL API

## Projects

### CropLens

- Developed a harvesting precision with Crop Seed Calculator Crop an intuitive tool for agriculture by providing accurate estimation for seeding requirements.
- The software leverages image processing techniques to analyze uploaded field images, enabling users to visualize their land and make informed decisions. By seamlessly integrating OpenCV for image analysis.
- **Tech Stack:** Python, Tkinter, PIL, cv2

### 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:** Node.js, NextJS, React, TailwindCSS, Bootstrap

**Clouds & Databases:** Google Cloud Platform (GCP), PostgreSQL, MongoDB

**Developer Tools:** Git, Docker, Kubernetes, Spring

**AI/ML:** Numpy, Pandas, Scikit-learn, TensorFlow

**CyberSecurity:** Threat Analysis, Firewalls, Antivirus Programs, Encryption Technologies

**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.