Harsh Raj

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Aspiring **Software Engineer** with expertise in **Android (Kotlin)**, **Full Stack Development**, and **Cloud** solutions. Proven track record in **Open Source** contributions and national-level hackathons. Passionate about building scalable, secure applications and optimizing performance using **Data Structures & Algorithms**.

EDUCATION

Shobhit Institute of Engineering & Technology   Meerut, Uttar Pradesh
Bachelor of Technology in Computer Science and Engineering   *Aug 2024 – Present*

Relevant Coursework: Data Structures & Algorithms, Operating Systems, DBMS, Computer Networks, OOP, Software Engineering.

R.K.D.F University   Ranchi, Jharkhand
Diploma in Computer Science and Engineering   *Oct 2021 – June 2024*

TECHNICAL SKILLS

Languages: Core Java, Kotlin, C, C++, Python, JavaScript, SQL
Frameworks & Libraries: React Native, React.js, BeautifulSoup
Developer Tools: VS Code, Android Studio, Expo, Linux, Postman
Cloud & Deployment: Vercel, Netlify, Supabase (BaaS)
Version Control: Git, GitHub

TECHNICAL EXPERIENCE

Text Encryption & Decryption Tool   2025
Open Source Contributor, Social Summer of Code

- Resolved 2 critical RSA encryption bugs (duplicate keys, incorrect padding) and enhanced functionality by integrating Caesar cipher support with UI improvements using JavaScript, HTML, and CSS.
- Achieved '**Advanced' contributor status** by maintaining a **100% issue resolution rate** and reducing code review turnaround time by ∼**30%** through efficient Agile workflows.

EventMappr Web App   2025
Open Source Contributor, Social Summer of Code

- Designed and implemented a location-sorted event listing page, leveraging React.js and Node.js to structure dynamic routing and a scalable **Component-Based Architecture**.

PROJECTS

Aegis AI | *Kotlin, Core Java, Binary Classification*   Sep 2025 – Present
Android Developer

- Currently developing an Android app that automatically detects and blurs explicit content on-screen for users under 18.
- Integrating a binary classification model for real-time, on-device content moderation, optimizing the inference loop to achieve <**50 ms processing time** with ∼**95% accuracy** on test data.

MemorySphere | *React Native, Supabase, Expo*   Summer 2025
React Native Developer

- Developed a cross-platform productivity application featuring smart memory organization, task management, natural language input, and a minimalistic UI for a distraction-free experience.
- Integrated Supabase for secure authentication, **database management**, and real-time data handling; presented the project at the Bolt Hackathon through a narrated demonstration video.

SiteGuard X | *React, Node, Python*   Early 2025
Full Stack Developer

- Engineered a Full Stack automated Cybersecurity & **Penetration Testing** tool capable of detecting critical web flaws, including SQL Injection (SQLi), Cross-Site Scripting (XSS), and Insecure Direct Object References (IDOR), reducing manual audit time by 40%.
- Implemented a custom crawling algorithm to map application architecture and identify hidden attack surfaces.

PUBLICATIONS

Harsh Raj (Co-Author). "Integrating Vedic Mathematics in Post-Quantum Cryptography." Presented at Indian Knowledge from Vedic Insights, Shobhit Institute of Engineering & Technology, Meerut, 2025.

HONORS & ACHIEVEMENTS

- **Finalist, Smart India Hackathon 2025:** Selected for national-level innovation showcase.
- **Runner-Up, Reverse Coding Competition 2024:** Secured top 5% placement by decoding complex logic patterns.
- **Contributor, Social Summer of Code (SSoC) 2025:** Recognized for advanced-level open-source contributions.
- **Gold Medalist, Diploma in CSE:** Awarded for securing the top rank in every semester.