

HARSH RAJ

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2K21/EC/96

EDUCATION

B. TECH (Electronic & Communication Engineering)	2021-2025	Delhi Technological University, New Delhi (aggregate CGPA till 5 th Sem)	8.1416
CBSE (Class XII)	2021	Holy Mission Senior Secondary School	95 %
CBSE (Class X)	2019	DAV Public School	92.6 %

WORK EXPERIENCE / TRAINING

Android Development and Security Analysis & Pen testing | DRDO | New Delhi (July 2024 - August 2024)

- Developed Android applications, including a weather app, portfolio app, and recipe app, using Android Studio and Kotlin.
- Conducted security analysis and penetration testing in three stages: static analysis with MobSF, dynamic analysis with Burp Suite, and reverse engineering with JadX, identifying various vulnerabilities such as exposed API keys, unsecured .json files, etc.
- Executed memory forensics utilizing Volatility tools by extracting computer RAM with FTK Imager and performed detailed analysis.

DevOps Intern | TATA DDL | New Delhi (Mid-May 2024 – Mid-July 2024)

- Developed a Grafana dashboard to monitor live server performance and website response times, providing regular updates.
- Employed Prometheus to collect and store metrics as time-series data, ensuring accurate timestamp recording.
- Integrated Prometheus with Blackbox Exporter by modifying the Prometheus YAML configuration, enabling comprehensive monitoring of external services such as HTTP, DNS, TCP, and ICMP.
- Monitored computer health using Node Exporter extensions within the Grafana server for comprehensive system insights.

ACADEMIC PROJECTS

Student Developer Support Tasks (May 2023-November 2023)

- Discussion Forum Upgrades: Spearheaded the optimization of a discussion forum, implementing critical upgrades to enhance its performance & scalability, particularly when handling substantial databases.
- Rest API for Discussion Forum: Led the transformation of the existing discussion forum into a Restful API, leveraging the Symphony & Twig framework to transition forum components into an API-first architecture.

Project **CODERACKET Remote** — *Static website*

- This educational website is built using HTML, CSS, and JavaScript.
- The platform provides free coding resources and materials, streamlining the learning process by centralizing valuable coding information for coders.

INSTAGRAM Replica

- This is a home page of Instagram using HTML, CSS & JavaScript

TECHNICAL SKILLS

Programming Language: C++, HTML, CSS, JavaScript, Kotlin Frontend: Ux-Improvement, API Integration, Performance improvement, Create Component, State Management	Framework: React Js, Node Js, Ruby on rails, Express, Django, Flask	Tools: GitHub, GIT, Firebase, MongoDB, MySQL, SQLite, webpack, GCP, Grafana, Prometheus, BlackBox Exporter, Node Exporter, FTK Imager, Burp suite, Android Studio, Volatility, JadX
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POSITIONS OF RESPONSIBILITY

- As a Class Representative of 3rd year in B. Tech at Delhi Technological University
 - My role is to represent and advocate for the interests and concerns of my classmates.
 - Currently, I am pursuing this position.
- Mentor in “Desh Ke Mentor” Program
 - Under this program, basically we guide our juniors those who studying in secondary schools.

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

- Got a "Certificate of Completion in HTML and CSS" by DevTown Bootcamp, Google and Microsoft. (2022-Dec)
- Won 1st price in Painting Competition on Independence Day.

OTHER INFORMATION

- LinkedIn: <https://www.linkedin.com/in/harsh-raj-689488224>
- Link to GitHub Repository: <https://github.com/harshraj820>