

HARSHIT KATHERIA

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Education

Dr. A. P. J. Abdul Kalam Technical University

Bachelor of Technology in Computer Science and Engineering

2022 – 2026

Greater Noida, U.P

Experience

Multiplier AI

March 2026 – Present

Full Stack & AI Intern

Noida, U.P

- Built and deployed production features for **manipalhospitals.com**, a platform serving millions of users, using **React** and **PHP** for full-stack development.
- Engineered intelligent **AI Agents** using **Pydantic AI** to automate business workflows, reducing manual intervention in key processes.
- Collaborated with cross-functional teams to ship features end-to-end in a fast-paced product environment.

Indo Wings Private Limited

August 2025 – December 2025

Software Developer Intern

Noida, U.P

- Led complete UI/UX overhaul of **indowings.com** using **Three.js**, **GSAP**, and **Lenis Scroll**, delivering immersive 3D animations and smooth scroll experience.
- Built full-stack features using **React** and **PHP**; deployed on **AWS** with DNS configuration and hosting management.
- Improved page performance and user engagement through modern frontend architecture and animation optimization.

E-Cosys Consultancy Pvt Ltd

June 2025 – September 2025

Software Developer Intern

Remote, Delhi

- Architected an AI-powered career guidance platform **career-copilot.e-cosys.in** using **LangChain**, **LangGraph**, and **Pydantic** for multi-step agentic workflows.
- Developed **RESTful APIs** with **Flask** backed by **Redis** caching to generate personalized career reports from psychometric assessments.
- Built a responsive **React + Vite** frontend for Personality, Aptitude, EQ, and Interest test flows.

Reality AI Lab

November 2023 – January 2024

AI Engineer Intern

Remote

- Built AI-powered features for an intelligent career coaching product using **OpenAI**, **Vertex AI**, and **TensorFlow**.
- Contributed to personalized mentorship and guidance flows using large language model integrations.

Projects

Code Contest Pro | *React, Node.js, Express.js, Docker, PostgreSQL, Redis* | github.com/UxHarshit/CMS

April 2025

- Built a **full-stack** competitive programming contest platform with real-time code execution in sandboxed **Docker** containers.
- Implemented dynamic leaderboards using **Redis** pub/sub for real-time score updates across concurrent users.
- Designed admin dashboard for problem management, user analytics, and contest scheduling with **PostgreSQL**.

GatePass | *Fastify, PostgreSQL, Redis, React, Tailwind CSS* | github.com/UxHarshit/GatePass-Hackathon

July 2025

- **Won 1st Place** at CodeAstra national hackathon (200+ teams); built a digital gate pass system with QR-based entry/exit tracking.
- Built backend with **Fastify** and **Sequelize ORM** on **PostgreSQL**; integrated OTP authentication and real-time verification.
- Developed **Astro + React** frontend with **Tailwind CSS**, achieving sub-second load times for high-traffic entry points.

Android Plugin System | *Kotlin, RBAC, Custom Classloader, REST API, MVVM*

2022

- Built a server-based Android platform with **Role-Based Access Control (RBAC)**, real-time network data fetching, and a **custom dynamic plugin loader** enabling runtime module loading without app redeployment.
- Engineered low-level **application security** including encryption layers, code obfuscation, integrity checks, and anti-tamper mechanisms drawing on industry-grade mobile protection techniques.
- Implemented runtime protection against tampering and debugging using reverse engineering principles.

Technical Skills

Languages: Python, JavaScript, TypeScript, Kotlin, PHP, SQL

Frontend: React, Astro, Tailwind CSS, Three.js, GSAP

Backend: Node.js, Fastify, Express.js, Flask, PHP

AI/ML: LangChain, LangGraph, Pydantic AI, OpenAI API, Vertex AI, TensorFlow

Databases & Caching: PostgreSQL, MySQL, Redis

Cloud & DevOps: AWS (EC2, S3, Lambda), Docker, Git, Linux

Security: Reverse Engineering, App Hardening, Code Obfuscation, Anti-Tamper

Concepts: System Design, REST APIs, RBAC, Microservices, MVVM, Agile

Achievements

- **Global Rank 542** in **TCS CodeVita Season 12** among 537,000+ participants from 96 countries.
- **Finalist** – Shaastra Programming Contest 2025, organized by **IIT Madras**.
- **CodeChef Div 1** – 2039 rating, 5-star, consistent top performer in competitive programming.
- **1st Place** at CodeAstra – 24-hour national hackathon among 200+ competing teams.
- **Smart India Hackathon (SIH) Finalist 2023**.