

Arman Saini

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EDUCATION

Thapar Institute of Engineering and Technology

Bachelor of Engineering in Computer Engineering – CGPA: 8.55/10.0

Patiala, Punjab

Aug. 2023 – May 2027

EXPERIENCE

Full Stack Intern

Jan. 2026 – Present

Centre of Excellence – Data Science and Artificial Intelligence (CoE-DSAI), TIET

Patiala, India

- Developed and maintained the production CoE-DSAI website serving **5,000+ monthly visitors** using React.js, Node.js, Express.js, and RESTful APIs
- Migrated legacy on-premise backend to AWS S3 and RDS, reducing page load time by **4x** and improving Lighthouse performance scores by **40%**

Research Intern – Samsung PRISM

Oct. 2025 – Feb. 2026

Samsung R&D Institute Bangalore

Bangalore, India

- Designed an unsupervised computer vision algorithm for real-time camera motion estimation and inter-frame motion detection, achieving **under 20ms** per-frame latency against production SLA targets

PROJECTS

Talkeys (3,500+ Users) | React.js, Node.js, Express.js, MongoDB, GCP

Jan. 2025 – Present

- Engineered a production-grade digital ticketing platform with QR-based entry validation and PhonePe payment gateway, serving **3,500+ users** end-to-end
- Scaled RESTful API backend on Google Cloud Platform, sustaining **99.9% uptime** and handling thousands of concurrent requests during peak events

Frosh 2025 (3,000+ Users) | Node.js, Express.js, MongoDB, Redis, Bull, k6

Aug. 2025

- Architected an event-driven platform with Redis and Bull queue-based job processing, supporting **3,000+ concurrent users** with zero downtime
- Eliminated MongoDB write-write conflicts under load, achieving **100% successful submissions** validated via k6 load testing; implemented QR check-in system improving registration efficiency by **50%**

SmartDrive | React.js, Python, OpenCV, Dlib, Google Cloud Storage

Feb. 2025

- Automated event photo sorting using a face recognition pipeline with OpenCV and Dlib, cutting manual effort by **90%** and improving GCS media retrieval speed by **30%**

COMPETITIVE PROGRAMMING & ACHIEVEMENTS

HackOn with Amazon Season 6 | National Finalist – Top **28 teams** out of 20,000+ teams and 71,000+ participants pan-India | Jul. 2026

LeetCode Knight | Top 4% Globally | **700+** Problems Solved | Max Rating: **1933**

All-Platform | **900+** problems solved across LeetCode, Codeforces, and CodeChef | CodeChef 2* (1562)

POSITION OF RESPONSIBILITY

Joint Secretary, Creative Computing Society

May 2025 – Present

Thapar Institute of Engineering and Technology

Patiala, India

- Spearheaded HackTU 6.0 (MLH-partnered hackathon) with a **50+ member** organizing team, attracting **500+ participants** pan-India and managing end-to-end event operations
- Delivered DSA and competitive programming workshops to **100+ students**, improving technical interview readiness across junior cohorts

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript (ES6+), C, SQL, HTML, CSS

Frameworks & Libraries: React.js, Node.js, Express.js, FastAPI, Django, Django REST Framework

Databases & Caching: MongoDB, PostgreSQL, MySQL, Redis

Cloud & DevOps: AWS (S3, RDS, EC2), Google Cloud Platform, Docker, Git, Linux, CI/CD pipelines

CS Fundamentals: Data Structures & Algorithms, System Design, Object-Oriented Programming, Operating Systems, Computer Networks, DBMS, Distributed Systems