

Baltej Singh

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EDUCATION

Thapar University

Bachelor of Technology in Computer Science

Punjab, India

Aug. 2024 – May 2028

DAV Public School

CBSE Senior Secondary Schooling

Punjab, India

May 2024

TECHNICAL PROJECTS

Mirage AR Showdown | *Express.js, React, LocAR.js, Firebase, Docker, Kubernetes, Three.js*

Nov 2025

- Implemented GPS-driven AR chest rendering with location-based 3D interactions for campus-wide gameplay
- Scaled infrastructure to support 2,000 concurrent users, using Kubernetes for high throughput.
- Implemented Firebase Realtime Database for low-latency storage and synchronization across clients.
- Served as Technical Lead — Implemented 3D/AR mechanics using Three.js and LocAR.js, overseeing integration and cross-device performance optimizations.

Nodey — Cross-runtime backend | *Docker, Docker-compose, Express.js, Flask*

Apr 2025

- Engineered a cross-runtime backend combining Node.js and Python microservices running concurrently in containerized environments.
- Architected endpoints across Node.js and Python backends, designing routing logic through a central load balancer.
- Developed an internal API for inter-container communication using Docker networking.

ACHIEVEMENTS

Runner Up at IIIT Nagpur Web3 Hackathon

Oct 2025

IIIT Nagpur

Nagpur, India

- Developed Dexilo — a decentralized B2B music-collab platform on the Internet Computer enabling project management, IPFS audio uploads, NFT minting/trading with waveform visuals, automated royalties, and on-chain provenance.

Finalist

Feb 2025

Thapar University

Patiala, India

- Secured Finalist spot among 3,000+ applicants at HackTU 2025, one of the North India's largest hackathon.

EXPERIENCE

Core Member & Mentor

Sep 2024 – Present

Creative Computing Society

Patiala, India

- Mentored 40+ juniors in WebDev fundamentals and DevOps practices, providing personalized guidance on technologies like React, Node.js, Containerization, Docker.
- Conducted 2 high-impact workshops on Fullstack development and basic DevOps, attracting 200+ attendees each and fostering hands-on projects.

Full Stack Developer

Sep 2025 – Nov 2025

Saturnalia, Thapar University

Patiala, India

- Contributed to the official Saturnalia website — a flagship platform for Thapar's largest annual techno fest—handling user registration, event scheduling, and live updates for 5,000+ attendees.
- Worked in a 23-person dev team using Git for collaboration, and ensured 99.99% uptime during the event

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Rust, Go, C/C++, HTML/CSS, Python

Frameworks: React, Node.js, Next.js, Flask, Express.js, Socket.io, Tailwind, Bootstrap, jQuery, Passport.js, Three.js

Developer Tools: Git, Docker, Kubernetes, Podman, VS Code, Postman, Supabase, NeoVim/Vim

Libraries: Pandas, NumPy, Matplotlib