

Smarak Gartia

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EDUCATION

- **Indian Institute of Information Technology**

Bachelor of Technology – Computer Science; GPA: 8.95

Lucknow, Uttar Pradesh, India

Aug 2024 – Expected May 2028

PROJECTS

- **DeepDefend – AI Deepfake Detection System**

Tech Stack: Python, FastAPI, PyTorch, Next.js, TypeScript, Gemini API

GitHub

Oct 2025

- Built a multi-modal deepfake detection system combining video and audio forensics, achieving **91.3% validation accuracy**.
- Designed an explainable inference pipeline using LLM-based evidence fusion to generate human-readable deepfake reports.
- Deployed the system as a Dockerized FastAPI service supporting reproducible inference and JSON-based outputs.

- **OpenShelter – Web3 Refugee Visa and Microloan Platform**

Tech Stack: Next.js, Solidity, MongoDB, TailwindCSS, Ethereum

GitHub

April 2025

- Created smart contracts to issue non-transferable Visa and Identity SBTs for verified refugee applicants.
- Implemented a microloan lifecycle with on-chain repayment tracking and automated blacklisting on default.
- Built a full-stack Next.js application integrating wallet-based authentication and contract interactions.

- **Tickit – Cross-Chain Dynamic NFT Ticketing Platform**

Tech Stack: Solidity, Next.js, TypeScript, TailwindCSS, Chainlink CCIP, Ethereum

(GitHub)

June 2025

- Developed a cross-chain ticketing architecture enabling event creation and ticket resale across Ethereum, Polygon, and Avalanche.
- Implemented CCIP-based message passing to synchronize ticket ownership and pricing state across chains.
- Developed a deterministic pricing and resale mechanism enforcing platform and organizer fee splits on-chain.

ACHIEVEMENTS

- Achieved ‘**Pupil**’ rank on **Codeforces** with a highest rating of **1233**.
- Earned **3-star** rating on **CodeChef** and solved **750+ problems** across various coding platforms.
- Contributed to **Hacktoberfest 2024** through multiple open-source pull requests.
- Secured **28th** position in **Incognito CTF**.

SKILLS

- **Languages:** C++, C, Java, Go, Python, JavaScript, TypeScript, SQL, Bash
- **Frameworks & Libraries:** Next.js, React, Node.js, Express, Tailwind CSS, TensorFlow
- **Databases & ORMs:** MongoDB, PostgreSQL, MySQL, SQLite, Mongoose, Drizzle ORM
- **Tools & Platforms:** Git, GitHub, Linux, Vercel, Cloudinary
- **Relevant Coursework:** Data Structures and Algorithms, Database Management Systems, Object-Oriented Programming, Web Development

ROLES AND RESPONSIBILITIES

- **Member, FOSS Wing – GDG IIIT Lucknow:** Provided mentorship during technical workshops, assisting students with open-source development and Git-based workflows.