

Anurag Kumar Mishra

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SKILLS

- **Languages** - Go, Rust, TypeScript, C++, OCaml
- **Databases & Caching** - PostgreSQL, MySQL, MongoDB, Valkey, Redis
- **Frontend** - Svelte, SvelteKit, Astro, React, Next.js, Tailwind CSS
- **DevOps & Tools** - Git, GitHub Actions, Docker, SSH, Neovim

EDUCATION

Motilal Nehru National Institute of Technology Allahabad

B.Tech, Electronics and Communication Engineering

2023 - 2027

Lord Buddha Public School, Aurangabad

• 12th - 94.4%

2023

• 10th - 95%

2021

OPEN SOURCE WORK

Summer of Bitcoin

strfry - open-source Nostr relay in C++ | github.com/hoytech/strfry

May 2026 - Ongoing

- **Selected from a global applicant pool** for the Summer of Bitcoin 2026 internship.
- Contributing to **strfry**, a Nostr relay written in C++, extending NIP-42 AUTH implementation.

Open Source Contributions

- **sqlc (a type-safe SQL code generator)** - improved config support for PostgreSQL timestamps.
- **kitty (a terminal emulator)** - implemented a timeout option for multi-key sequences.

PROJECTS

mnnitchessclub.com

Full-stack chess server and web frontend

2025

- **Tech:** Go, SvelteKit, PostgreSQL, Docker, Caddy
- Built a real-time chess platform with WebSocket sync, chat, move history, and draw/resign flows.
- Implemented arena tournaments (berserk, abort handling, live leaderboards) with containerized, security-isolated infra.
- Source

Bitcoin Developer Tools

Tx Visualizer, PSBT Parser, Chain Forensics

2026

- **Tech:** Rust, TypeScript
- Built transaction graph visualizer and PSBT (BIP-174) parser exposing inputs, outputs, and metadata.
- Developed heuristic-based on-chain forensics for tracing flows, change detection, and address clustering.

Ray Tracer

Multithreaded BVH-accelerated renderer in Rust

2025

- **Tech:** Rust, rayon
- Implemented physically-based ray tracer with diffuse/metal/dielectric materials, DOF, and anti-aliasing.
- Optimized using BVH + parallel rendering (rayon) achieving near-linear speedup with safe concurrency.

EXTRACURRICULARS

- Rated above **2000 rapid** and **1850 blitz** on chess.com
- Won **Chess Fresher's Fiesta 2023** and **MNNIT Chess Championship 2025**