

# Nisarga Adhikary

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## WORK EXPERIENCE

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### Software Engineering Intern

Aug 2025 — Sep 2025

Cypherock

*Remote*

- Developed and deployed GenAI-driven tooling to streamline marketing workflows, increasing team throughput and reducing manual steps.
- Improved Core Web Vitals and optimized front-end performance, leading to measurable page speed and SEO improvements.
- Delivered targeted UX/performance changes that increased user satisfaction and reduced bounce on key landing pages.

### Software Engineer

Sep 2024 — Dec 2024

Skann

*Remote*

- Built backend and frontend features for the Skann application, focusing on reliability and a smooth user experience.
- Scaled DevOps infrastructure to support growth and faster deployments.
- Conducted security audits and remediations across the codebase to harden the application.

### Web Dev Intern

Jun 2023 — Aug 2023

New Delhi Space Society

*New Delhi, India (Hybrid)*

- Contributed frontend work for the IIITD ESYA competition site—implemented designs from Figma and improved overall UX.
- Collaborated with designers and engineers to deliver responsive, accessible pages under tight deadlines.

## PROJECTS

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### CHIP-8 Emulator

<https://github.com/ni5arga/chip8-emulator>

- Implemented a **complete CHIP-8 virtual machine** in C++, including **CPU, memory, registers, stack, timers, and opcode decoding**.
- Built an instruction fetch–decode–execute cycle supporting all core CHIP-8 opcodes with correct timing and control flow
- Implemented keyboard input handling and monochrome display rendering according to the CHIP-8 specification
- Designed a modular and readable emulator architecture to simplify debugging and future extensions

### PastelPaste

<https://github.com/ni5arga/pastelpaste>

- Built a fast, modern pastebin in Rust featuring a minimal UI, Markdown rendering, and secure, efficient backend architecture.
- Implemented performance-oriented storage, routing, and rendering to ensure a smooth editing and sharing experience.

### Reconchan

<https://github.com/ni5arga/reconchan>

- Created a browser extension that automatically detects a site's tech stack, discovers JavaScript endpoints, and identifies leaked secrets.
- Designed modular, extensible detectors tailored for security researchers and red-team workflows, improving recon efficiency.

### ModMail to Discord/Slack Sync

<https://github.com/ni5arga/modmail-to-discord>

- Developed a reliable webhook-forwarding system that syncs ModMail conversations to Discord and Slack in real time.
- Adopted by **500+ online communities** to centralize moderation workflows, reduce response latency, and improve team coordination.
- Implemented features such as ignore lists, role pings, outbound message controls, and private mod-note highlighting using structured embeds.

## SKILLS

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- **Programming Languages:** JavaScript, TypeScript, Rust, Python, C/C++, Java, Bash, Dart/Flutter, HTML/CSS
- **Frameworks & Tools:** React, Svelte, Astro, Tailwind CSS, Node.js, Express, SQL/NoSQL (MongoDB), Docker, Kubernetes, Git, NGINX, Caddy
- **DevOps & Infra:** GitHub Actions, Fly.io, DigitalOcean, GCP, CI/CD, Railway, Heroku
- **Database & ORMS:** MongoDB, SQLite, Firebase, MySQL, Postgres, Drizzle, Prisma