

PRATHAM REET

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Summary

Third-year Computer Science student with hands-on experience building and improving real-world software systems. Focused on writing efficient, scalable code and understanding system behavior beyond the surface. Seeking a software engineering internship to contribute to meaningful products.

Projects

BokehTV - Production Grade Media Discovery Service ([live](#), [github](#))

Tech Stack: Next.js 16, React 19, TypeScript, Express, PostgreSQL, Prisma, Redis, Docker, Jest, Prometheus, Grafana, Winston, Zod.

- Architected a multi-repository system with cloud deployments, implementing Redis cache-aside pattern with 24h TTL for TMDB API responses and 1h TTL for user watchlists - reducing external API calls by ~70%.
- Applied JWT dual-token authentication (1h access + 7d refresh) with HttpOnly cookie storage and automatic token rotation, plus tiered rate limiting (10 req/15min for auth, 100 req/15min for general API) to prevent brute-force attacks.
- Implemented full observability stack with Prometheus metrics, Grafana dashboards, and comprehensive testing using Jest and Playwright, along with structured JSON logging and request correlation IDs for production debugging.
- Configured automated CI/CD pipelines with GitHub Actions running (lint, build, test), quality gates before deployment, plus multi-stage Docker builds (Alpine-based) reducing production image size and ensuring zero-downtime deploys.

LinkSmith - Hierarchical Link Storage ([live](#), [github](#))

Tech Stack: Next.js 16, TypeScript, PostgreSQL, Drizzle ORM, NextAuth.js, Zustand, Tailwind, Google OAuth

- Designed a URL metadata ingestion system with retry logic, fuzzy search, and debounced queries, reducing search latency by ~40% while eliminating redundant API calls through client-side caching and Zustand-based state management.
- Modelled a 4-tier relational schema (Library-Workbook-Page-Link) with soft deletes and point-in-time recovery, supporting 1,000+ stored links without performance degradation.

Notexa - Cloud based Markdown Editor ([live](#), [github](#))

Tech Stack: Next.js 15, React 18, MongoDB, JWT (RS256), bcrypt, Puppeteer, PWA

- Engineered a real-time Markdown editor with synchronized editor-preview scrolling and a theme system, along with RS256 JWT authentication, RBAC access control, and encrypted content storage via MongoDB GridFS.
- Developed a multi-format export pipeline (PDF via Puppeteer, HTML, MD, TXT) with batch conversion and background sync, reducing export time by ~60% compared to sequential processing.

LC32 - Encrypted P2P Messenger over LAN ([github](#))

Tech Stack: Java, Swing, UDP Multicast, AES-128/CBC

- Built a serverless peer-to-peer LAN messaging system using UDP multicast with heartbeat-based peer discovery (<5ms latency) and AES-128/CBC encryption with randomized IVs for secure, low-overhead communication.

Wishable - eCommerce Wishlist Aggregator ([live](#), [github](#))

Tech Stack: Next.js, Node.js, MongoDB, JWT, Cheerio, Tailwind

- Built a multi-source wishlist aggregator using CSS selectors and JSON-LD parsing to ingest products from 5+ platforms with retry and rate-limit handling, enabling scalable public wishlists and shareable profiles.

Skills

Frontend: HTML, CSS, JavaScript, TypeScript, React, Next.js, Tailwind

Backend & Database: Node.js, Express.js, Prisma, Mongoose, MongoDB, PostgreSQL, SQL, Redis

DevOps & Tooling: Linux, Git, Docker, Vercel, Railway, Prometheus, Grafana, Winston, Jest

Languages: C, C++

Achievements

LeetCode: 257 problems solved - Contest Rating **1,830** - 426 submissions in the past year.

GitHub: 613 contributions in the past year.

Certifications

Cloud Computing - NPTEL (IIT Kharagpur) - Score: **78%** | Elite + Top 5%

Git Training - Spoken Tutorial (IIT Bombay) - Score: **83%**

Education

New Horizon College of Engineering, Bangalore | B.Tech in Computer Science & Engineering **CGPA: 9.40** Expected Sept 2027

Munam Public School, Hazaribagh | Higher Secondary (XII) **82.4%** 2023

DAV Public School, Hazaribagh | Secondary (X) **91.0%** 2021