Ankit Kumar Sahu

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Summary

CSE student with a problem-solving mindset and hands-on experience in building web platforms and system utilities, seeking software engineering internship opportunities. Adept at learning new technologies quickly and applying them to real-world challenges.

Projects

Szare: Local File Sharing App (*Gin, Next.js*)   Github
- Engineered Go-based concurrent transfer engine supporting **50+ parallel file streams with zero-copy I/O**, achieving **100+ MB/s throughput** on LAN.
- Designed **self-hosted architecture eliminating third-party dependencies**, reducing external attack surface by **100%**.
- Built responsive UI enabling **1–10 GB file uploads per session** with resumable transfer support.

Titly: URL Shortener (*Gin, Sveltekit, Redis, Docker*)   Github
- Implemented **Redis LRU cache reducing database hits by 70%**, enabling sub-**5 ms** short-code resolution latency.
- Containerized services using Docker, cutting setup time from **30 min to under 3 min** per deployment.

DevIDE: Online Code Editor (*Next.js, Convex*)   Github
- Built customizable multi-theme UI and integrated **Stripe payment flow**, processing **100+ test transactions**.
- Implemented indexed search and Redis caching, improving project retrieval performance by **60%**.
- Designed user profile system storing **10k+ code execution logs** with complete history tracking.

Open Source Contributions

Chromium (*C++, TypeScript, CSS*)
- Replaced deprecated `base::Time` sentinel with `base::Time::Max()` for clearer and safer time-range handling.   CL #7206813
- Improved unreadable console output selection text color in DevTools by enhancing selection contrast for dark backgrounds.   CL #7109459

Turso Database (*Rust*)
- Replaced unsafe `str::from_utf8_unchecked` with safe UTF-8 conversion to eliminate potential undefined behavior.   PR #1677

Technical Skills

- **Languages:** TypeScript, C++, Go, Rust, Python, C, Java, Bash
- **Frameworks and Libraries:** React.js, React Native, Next.js, SvelteKit, Express.js, Gin, FastAPI
- **Databases and ORMs:** PostgreSQL, MongoDB, Redis, SQLite, Prisma, Drizzle
- **Tools and Technologies:** Linux, Docker, Kubernetes, REST APIs, GraphQL, Git, AWS EC2, AWS Lambda, AWS S3, CI/CD, CMake

Education

CV Raman Global University, Bhubaneswar	Bhubaneswar, India
Bachelor of Technology in Computer Science and Engineering	*(2023 – 2027) — CGPA: 8.26*
Delhi Public School, Ranchi	Ranchi, India
Class 12th, CBSE	*2023 — Percentage: 85%*
SS DAV Centenary Public School, Khunti	Khunti, India
Class 10th, CBSE	*2021 — Percentage: 93%*