ANANTA KARMAKAR

Web developer

codeAntu@gmail.com • Linkedin • Github • Portfolio • Twitter • +91 9800211400

SKILLS

Languages: HTML, CSS, JavaScript, TypeScript, C, C++, Java, Rust, SQL, MongoDB.

Frameworks/Libraries: React.js, Next.js, trpc, Redux Toolkit, Zustand, Tailwind, React Query, Framer Motion, Zod, Shadcn, TanStack, Antd, Socket.io, Hono, Express.js, Prisma, neon, firebase, ...more.

Tools: Git, GitHub, Node.js, npm, Prettier, ESLint, Postman, Vite, Vitest, Jest, Docker, Figma, Storybook, Playwright, NX, Serenity

WORK EXPERIENCE

Cazz - *Frontend Engineer*   *Mar 2025 - Present*

- Architected a scalable SaaS frontend with React, TS, and Radix UI, using 40+ accessible, tree-shakable components.
- Engineered a **real-time collaboration** system with TanStack Query, Zustand and **WebSockets** — enabling task comments, mentions, file attachments, and optimistic updates for **500+** concurrent users.
- Developed advanced UI features like **view transitions**, usePicSelect with **drag-and-drop file**, and custom hooks.
- Designed modular **multi-tenant architecture** with dynamic routing, **role-based access**, and seamless context switching across workspaces.

Test Buddy - *Frontend Engineer*   *Dec 2024 - Mar 2025*

- Built a platform for **10,000+** JEE/NEET aspirants with **real-time tests**, analytics, and personalized result tracking.
- Architected a scalable component system with **atomic design principles**, type-safe utilities, **context-based state** sharing, and code-splitting for performance optimization.
- Built complex UIs-multi-panel test screens, **dynamic timers**, visualizations, and formula repositories, **custom hooks**.

NexGino - *Frontend Engineer*   *FEB 2024 - Dec 2024*

- Developed scalable, high-performance platforms, gaming website, **video streaming**, stock investing app.
- Enhanced UX by implementing **video chunking**, lazy loading, **live chat**, and real-time data analytics, boosting engagement by **70%** and reducing response by up to **225%**.

PROJECTS

Throbuzz | Github | Link   *November 2024*

- Built scalable social media platform with Next.js 14, TypeScript, MongoDB supporting **1,000+** users.
- Developed advanced features: **infinite scroll** feeds, real-time notification system, **multi-level comment threading**, user discovery with search functionality and media management with **Cloudinary**.
- **100%** Secure auth with **JWT**, **bcrypt.js**, OTP-based email verification, and password recovery using **Nodemailer**.
- Optimized MongoDB schema and REST APIs using advanced **aggregation pipelines** with $lookup and $facet, indexing, and used **SSR**, lazy loading, paginated queries to achieve **90+** SEO & performance scores.

Battle Zone | Github | Link   *February 2025*

- Architected a full-stack, **dual-role** (user/admin) Tournament Platform using **React**, TypeScript, Zustand, TanStack tools, Hono backend with **PostgreSQL** (Drizzle ORM), and custom **Redis**-based **rate limiting** — serving **1,000+** users.
- Engineered **real-time tournament** flow with live tracking, eligibility checks, dynamic capacity, **in-game cash** handling, complex transaction history and automated entry fee processing.
- Implemented **role-based** auth (JWT+OTP), user management, admin-controlled **deposits/withdrawals**, winner logic.

MD compiler | Github | Editor | npm package   *July 2024*

- Developed a high-performance Markdown **compiler** and editor in React & TypeScript; published as an **npm package**.
- Achieved real-time preview with **0 latency**, compiling **10,000+** characters in ~**5ms** — delivering **300%** faster performance than traditional Markdown compilers.
- Built a **custom parser** with tokenization and an **AST** system to recursively render Markdown as HTML components.z

ACHIEVEMENTS

Open Source : Contributed to Accord Project and Zendalona.

LeetCode: Solved **720+** Problems; Ranked in top **60k** globally. Leetcode Profile.

Academic Excellence: Recipient of **Sir J. C. Bose Award** for outstanding performance in Computer Science.

EDUCATION

Bankura Unnayani Institute of Engineering

B.Tech - Computer Science and Engineering