

Amar Mahato

Software Engineer

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PROFILE

Software engineer building web products and backend services with TypeScript and Python. Recently completed an internship at IntelGrader, building and maintaining its internal review app.

EXPERIENCE

IntelGrader

Remote

AI Engineer Intern

May 2026 – Aug 2026

- Built and maintained ToruAnno, the internal review app where reviewers lock a scanned answer page, correct model annotations and transcripts, save a numbered revision, and export reviewed training data. TypeScript and React on Cloudflare Workers, with Supabase Postgres and R2, holding tens of thousands of pages.
- Fixed review navigation that only looked at a 200-row slice; reviewers could not reach flagged pages deeper in a set. Also found the metrics screen reporting a 200-row sample as the whole set, and switched it to server totals.
- Fixed a save path that wedged on lost responses: the database committed a version the browser never heard back about, so every retry reused a stale number and failed. Moved version assignment into the save transaction under a row lock, which also closed a race where one of two concurrent saves always failed.
- Traced slow page loads by timing image downloads separately from database calls, then cached the heaviest dashboard query and added request IDs and Sentry. As follow-on work after the internship, cut the default queue query from 97ms to 3.3ms on production by fixing a plan that read the whole set to return one page.

OPEN SOURCE

Runnable mem | *Bun, TypeScript, SQLite*

github.com/runablehq/memory/pull/2

- mem is Runnable's memory store for AI agents, used to save and recall information across sessions. Piping IDs into its bulk delete command crashed it; the fix reuses the tool's existing input reader and adds a test that runs the real command. Open two-file PR, all 11 tests passing.

PROJECTS

Concize | *Node.js, WebSockets, PostgreSQL, Qdrant, Redis*

github.com/rx6ru/Concize/tree/v4

- Concize is a live meeting assistant for Indian-language and code-mixed calls, which most meeting tools handle badly. It shows a live transcript with speaker labels and answers questions mid-meeting, citing who said what.
- Built the backend. Audio streams in over a WebSocket, and transcription and speaker detection run separately, so text appears right away and the speaker label follows. If speaker detection fails, the transcript keeps going.
- Raised correct speaker turns from 85% to 94% on 40-speaker test sessions by tuning the matching threshold, and rebuilt the answer grader after it agreed with itself on only 29% of identical answers.

IcBerg | *Python, FastAPI, PostgreSQL, MCP, Docker*

github.com/rx6ru/IcBerg

- IcBerg is a safety layer that lets AI agents use a database but never damage it or leak personal data.
- The agent never gets a database connection; it can only propose a query. IcBerg blocks anything destructive, holds data changes until a person approves the exact query, runs safe reads with limits, hides personal fields, and logs every decision in a tamper-evident record.

Strata | *Python, SQLite, REST, MCP*

github.com/rx6ru/strata

- Strata is shared memory for AI agents. An agent's local memory does not follow the work to another machine or session, so Strata keeps a project's decisions and handoff notes where any agent can read and add to them.
- Agents reach it through a CLI, REST or MCP. They can add records but never edit or delete them, which the database itself enforces, so a correction is saved as a new record and the old one stays in history. Retried saves are not stored twice, and secrets are rejected.

TECHNICAL SKILLS

Languages: TypeScript, Python, JavaScript, SQL

Frameworks: React, Node.js, FastAPI

Data & Cloud: PostgreSQL, SQLite, Redis, Qdrant, Cloudflare Workers, Docker

Tools: Git, GitHub Actions, Sentry, REST APIs, WebSockets, MCP

EDUCATION

Dr. B. C. Roy Engineering College

Bachelor of Technology in Computer Science and Engineering

Durgapur, West Bengal, India

Expected 2027