

Roni Raj Kamal Pradhan

SENIOR SOFTWARE ENGINEER · FULL-STACK & AI

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Senior full-stack engineer (React, Node, TypeScript, AWS) with five years building a B2B user-research platform end to end as one of two engineers. Built its AI layer, AI voice interviews on LiveKit and the Twilio-to-LiveKit migration, cut its LLM spend by ~16%, and own the systems around them, from the public API and Stripe billing to email consent and invite delivery.

EXPERIENCE

Senior Software Engineer, CleverX Jan 2024 – Present

B2B user-research platform · promoted from Software Engineer · two-engineer team

- **Built the platform's AI layer:** an LLM study-builder agent (Anthropic and OpenAI SDKs, Langfuse-traced) that authors complete research studies, with a tool-call scheduler that orders calls by each tool's declared reads and writes.
- **Shipped AI voice interviews** on LiveKit agents: persona and voice from the study config, live transcription (AssemblyAI, Cartesia), think-aloud transcription in prototype and website tasks, and atomic server-side completion.
- **Cut monthly LLM spend by ~16%** by fixing low-cache-hit LLM-as-a-judge eval rules with request sampling and model selection; migrated Langfuse to v4 ahead of its Cloud cutover and fixed agent traces reporting zero cost.
- **Replaced the live video layer,** migrating Twilio to LiveKit in one release across four repositories: rooms and tokens, multi-egress recording, highlight clips, observer mode, reconnects, and an SQS-backed recording archive.
- **Deepened unmoderated research:** website tests graded against a goal URL and re-scored at read time, video diaries, and Figma prototype testing, taking the Figma OAuth app through Figma's review to general availability.
- **Owned email consent and audience data:** one-click unsubscribe and opt-out enforcement across the API, mail Lambda and all 110 templates, and a Resend and Google Sheets pipeline tracking signups, demos, studies and payments by funnel stage.
- **Made invite delivery reliable at scale:** delivery past the old 1,000-per-run cap in batches, a 15-minute recovery sweep with Slack alerts, and re-screening that archives earlier answers instead of destroying them.
- **Hardened tenant isolation** in session and recording reads, and retired the legacy scheduling model and dead call flows, deleting ~13,700 lines across three repositories.
- **Opened the platform to programmatic customers:** public REST API and webhooks, v1 study and participant endpoints, API keys with superadmin access control, a developer dashboard and published docs.
- **Delivered billing and multi-seat teams on Stripe:** roles, ownership transfer, billing-excluded observer seats, autocharge, credits, and off-platform payment tracking.

Software Engineer, CleverX Mar 2021 – Dec 2023

- **Built and rolled out the design system** (component library and palette) across the web app and admin console, and led the React 18 migration.
- **Owned the search revamp:** migrated Algolia to Typesense with geography indexing and job, level and company-size filters; later rewrote participant–study matching with search scoring, location weighting and exclusion filters.
- **Built the screener engine** (branching and skip logic with validation, country-match scoring, non-destructive re-screening, quota release on reviewer rejection) and took over transactional email on MJML and Postmark.

PROJECTS

Codebase Archaeology github.com/Roninanu777/codebase-archaeology · codebase-archaeology.pages.dev
Open-source tool that answers “why does this code exist” from git history, PR discussions and linked issues, citing every claim to a commit or comment. Python, Postgres + pgvector, BM25 hybrid retrieval with reciprocal rank fusion, tree-sitter, REST API and MCP server.

Year Progress Wallpaper github.com/Roninanu777/year-progress-wallpaper iPhone wallpapers showing the year as a dot grid, with an API for iOS Shortcuts. Next.js, TypeScript.

TECHNICAL SKILLS

Languages	JavaScript, TypeScript (primary), Python
Frontend	React 18, MobX, Tailwind, Radix UI, Vite, webpack, Framer Motion, TipTap, Recharts, Stripe Elements
Backend & data	Node.js, Express, REST and webhooks, MongoDB, Postgres + pgvector, Typesense, Elasticsearch, Stripe, Jest, Postmark, MJML, Resend
AI & real-time	Anthropic and OpenAI SDKs, LLM agents and tool calling, RAG, MCP servers, Langfuse, LiveKit agents, AssemblyAI, Cartesia, ffmpeg
Infra & CI/CD	AWS Lambda, CDK, S3, SQS, DynamoDB, CloudFront, GitHub Actions, Cloudflare Workers, Docker, PostHog

EDUCATION

B.Tech, Computer Science & Engineering — National Institute of Technology, Arunachal Pradesh 2021