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# Ayaan Retiwala

Vadodara, India | Remote

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## Full-Stack Product Engineer | AI Applications and Platform Systems

Full-stack engineer who ships the interface, backend, infrastructure, and failure handling around a product. Built a live AI exam-practice system with structured generation and quality gates, a mobile console for long-running coding agents, a Next.js cloud console, Go control-plane services, WebSocket terminals, and desktop products. I work quickly without treating retries, stale state, partial saves, observability, and release work as someone else's problem.

## Experience

### Excloud, Platform Engineer L2

Remote | Jun 2023 to Present

- Built the core Excloud cloud platform from scratch and owned services and product surfaces used across 4,092 active accounts and 2,341 active organizations in the August 2026 snapshot. Worked directly with high-value customers in support and DevOps, handling production escalations and carrying fixes back into the platform.
- Built Next.js and TypeScript workflows for compute, object storage, Streams/Kafka, secrets, resource tags, billing, authentication, and security groups, including multipart upload queues, retry and cancel, partial-save reporting, stale-read recovery, and typed destructive confirmations.
- Delivered an authenticated browser terminal with Xterm and WebSockets, including token handling, connection state, resize messages, cleanup, and API integration.
- Extended Go services across compute, managed Kubernetes, S3-compatible storage, identity, encrypted secrets, and billing. Built an OpenAPI 3.1 toolchain spanning generated Go clients, the exc CLI, and a Terraform provider with 30 resources and 13 data sources.

## Selected AI and Full-Stack Products

### UPSC Learning

Live app | [Source](#) | Next.js 15, React 19, Hono, SQLite, Vertex Gemini

- Built and operate a full-stack exam-practice product for AI-generated UPSC-style quizzes and official 2013 to 2025 previous-year papers, with quiz attempts, explanations, history, statistics, quiz sets, cancellation, resume-safe runs, and original-PDF access.
- Built the LLM quality pipeline around structured generation: request validation, schema and domain checks, topic-signature deduplication within a batch and against history, bounded retry and regeneration, optional web grounding, factual repair and re-checking, and per-run model, latency, token, parsing, validation, and filter metrics.
- Built durable quiz-set runs with per-item progress, cancellation, partial-failure summaries, and resume-safe execution backed by persisted state rather than browser memory.

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## Rig

Source | React 19, Vite, Fastify, WebSockets, TypeScript, pi RPC

- Built a mobile-first dispatch console for a coding agent with a unified session board, streamed tool-call logs, project discovery, model and reasoning selection, file tracking, stop controls, and session resume across browser and terminal.
- Kept the agent runtime behind a JSON-RPC process boundary and added Tailscale deployment plus Telegram and REST operators for remote dispatch and monitoring.

## Character Brain

Source | Lua, Node.js, structured LLM output, KORReader

- Built a spoiler-safe character lookup system that filters book evidence locally by reading position, sends only allowed passages to a model gateway, requires structured output with an exact source quote, and independently validates that quote on the server and device before display.

## Skills

Frontend: TypeScript, React, Next.js, Vite, Tailwind CSS, responsive UI, WebSockets, Xterm

AI applications: Vertex Gemini, structured outputs, prompt pipelines, validation and repair, deduplication, web grounding, OAuth, SSE, agent RPC integration

Backend and delivery: Go, Node.js, Fastify, Hono, PostgreSQL, SQLite, OpenAPI 3.1, Docker, Cloudflare, Kubernetes, GitHub Actions

## Education

### Sardar Vallabhbhai Patel Institute of Technology, Vasad

Bachelor of Engineering, Computer Engineering | 2018 to 2022