

1,461  
PRs merged @ Codignal

5 yrs  
scaling Codignal (YC W21)

666  
GitHub stars (own OSS)

15K /mo  
npm downloads

## Summary

Principal Full-Stack Engineer at [Codignal \(YC W21\)](#), where I own revenue-critical systems for a global edtech platform. Depth in [payments & billing](#), backend architecture (Python/Django), AI voice agents, and performance-sensitive admin dashboards. Indie builder on the side — APIs and developer tools with a real paying-user base.

## Experience

Codignal · Jul 2021 - Present · Intern → Principal

### 2021 Foundation

Joined the Django monolith on notifications and payments — learned where the business actually makes and loses money.

### 2023 Senior Engineer

Took end-to-end ownership of the money path: Stripe/Razorpay payments, billing, and the student-credit lifecycle.

### 2025 Principal

Now drive cross-cutting platform bets — AI voice agents, the Cody AI tutor, and reliability — at the team's highest PR volume.

### AI Voice Agent Platform · DialNexa + Bolna

OWNER

**ROLE** Built Codignal's automated AI calling stack end-to-end — payment-reminder calls and a student re-engagement agent that calls families when a child starts missing classes — across India, US, and Canada.

**ACTIONS** Designed webhook ingestion, region-scoped provider config under a clean [voice/providers](#) layer, post-call sentiment extraction, and concern-only Slack escalation pipelines spanning two providers (DialNexa, Bolna).

**IMPACT** Shipped the "Neha" re-engagement agent to [production for US & Canada](#) with timezone-aware evening calling, DND handling, and one-call-per-class limits; daily concern alerts let student-ops action aggrieved families on priority.

### Payments, Billing & Credits · revenue path

OWNER

**ROLE** Own the money path used across global enrolments — Stripe (USD) and Razorpay flows, billing, and the student-credit lifecycle that governs auto-charge and discontinuation.

**ACTIONS** Fixed Stripe USD fee capture for checkout and backend auto-charge, normalized Razorpay currencies, built credit-expiry with recent-activity eligibility, and migrated the auto-discontinuation threshold behind a safe rollout.

**IMPACT** Hardened revenue correctness across currencies — accurate fee capture, auto-charge AR-page cleanup, and pre/post credit-expiry alerts; surfaced auto-debit consent across admin and paid payment pages so finance and ops trust the numbers.

### Cody — AI Coding Tutor · LLM product

MODULE OWNER

**ROLE** Shipped Codignal's AI coding-tutor chat (Cody) and its voice layer, giving students a grade-aware assistant inside the classroom product.

**ACTIONS** Built grade- and subject-aware prompt tuning, a [hard safety gate](#) on chat prompts, ElevenLabs read-aloud with browser-TTS fallback, and a backend cache for voice replays; tuned the starter-subject flow and chat UI.

**IMPACT** Delivered a production AI tutor with guardrails that keep responses age-appropriate; the replay cache cut repeat TTS cost, and grade/subject tuning kept answers on-curriculum rather than generic.

### Teacher Video Pipeline · S3 + FFmpeg

OWNER

**ROLE** Built multi-recording upload and server-side merge so teachers can upload class recordings in parts when a session spans multiple platforms.

**ACTIONS** Designed chunked multi-part upload sessions, an [FFmpeg retry loop](#) with real error visibility, corrupt/empty-part rejection before merge, archived-S3-part handling, and partial-failure session restarts.

**IMPACT** Reliable merges against real-world flaky uploads — recovers from partial failures without data loss and rejects invalid media before it corrupts a merge, removing a recurring source of lost class recordings.

Solo, end-to-end indie developer — ship the API, the docs, and the business. Range across TypeScript, Python, and Lua; bias toward small tools that do one thing well and actually get used. Cumulative GitHub: 666 stars · 84 public repos · 234 followers.

<b>meta-fetcher</b> TypeScript · metadata scraper for Node.js · 4.9K npm downloads/mo	★ 147	<b>hackernews-redesign</b> JavaScript · minimal Hacker News client · Next.js + Tailwind	★ 90
<b>github-card</b> JavaScript · GitHub profile web component that looks good	★ 75	<b>github-dlr</b> Python · recursively download single GitHub files/folders · PyPI	★ 60
<b>contribute-101</b> Starter repo for first open-source contributions · 195 forks	★ 55	<b>react-country-dropdown</b> TypeScript · React country picker · 5.1K npm downloads/mo	★ 14

**TRACTION** Published packages pull ~15K npm downloads/month combined, and **Animechan** — a freemium anime-quotes API that began as a college hobby project — now sustains a paying community (43 supporters & members on Buy Me a Coffee, with a premium tier and Discord).

### Judgment & Conviction

<b>2021</b> Monetized a hobby project Turned the Animechan API from a college side-project into a freemium product — chose a \$3/\$5 membership + Discord over ads, and grew a real paying community around it.	<b>2026</b> Killed a dependency under fire When a deprecated external country API broke a live tool, I replaced it with a backend-only local data source instead of swapping vendors — removing the third-party dependency entirely. Fixed within the hour.	<b>2026</b> Production-first, region by region Rolled the SRAS voice agent out region by region (India → US/Canada) behind phone-region gates, validating call quality before widening — not a big-bang launch.
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### Core Skills

<b>BACKEND &amp; ARCHITECTURE</b>	Python · Django at scale — revenue-critical systems in a large monolith, with an eye for where correctness and money intersect.
<b>PAYMENTS &amp; BILLING</b>	Stripe & Razorpay, multi-currency fee capture, auto-charge, and a full student-credit / billing lifecycle.
<b>AI / LLM SYSTEMS</b>	Treat AI as an engineered system — voice agents (Bolna/DialNexa), Gemini & ElevenLabs integration, prompt tuning, safety gates, webhook ingestion, post-call extraction, and Slack alerting.
<b>FULL-STACK &amp; FRONTEND</b>	TypeScript · Next.js · React — admin dashboards, payment pages, and an ISR rebuild of the homepage to cut SSR load.
<b>INFRA &amp; TOOLING</b>	Docker · S3 / FFmpeg pipelines, Sentry noise control, IP rate limiting, caching/CDN, and Slack/WhatsApp/SMS notification infrastructure.