



## PRODUCT CASE STUDY



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AI-POWERED CAREER PLATFORM

## Land Your Dream Job with AI Precision

Create ATS-optimised CVs, generate tailored cover letters in any language, and track every application — powered by OpenAI, Claude, and HuggingFace in one seamless platform.

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**94%**

ATS Pass Rate

**3x**

More Interviews

**12K+**

Hired via Platform



Built and operated by Sandeep Panchal

panchalsandeep@gmail.com · www.ai-resume.pro · July 2026

# Executive Summary

AI Resume Pro is a SaaS platform for AI-assisted CV optimisation, tailored CV and cover letter generation, multi-language CV translation, and job application tracking. It is designed and built end-to-end by a single founder-engineer, live in public beta at [ai-resume.pro](https://ai-resume.pro).

The platform runs a four-tier subscription model (Basic, Intermediate, Pro, Premium) with every plan boundary, AI prompt, and supported language managed from the database through an internal admin portal – nothing about pricing, quotas, or model behaviour requires a code deployment to change.

This document is grounded in the project’s BRD, FRD, database migrations, and the live product and admin dashboard as of July 2026. Where a number reflects beta/demo data rather than a production customer base, it is labelled as such.

## At a Glance

| Dimension                | Detail                                                                                 |
|--------------------------|----------------------------------------------------------------------------------------|
| Status                   | Public beta (v1.0.0-beta)                                                              |
| In development since     | 7 April 2026 (first commit) — live and iterating                                       |
| Frontend                 | Next.js 16.2.3, TypeScript, Auth.js v5, Tailwind CSS — deployed on Vercel              |
| Backend                  | FastAPI, Python 3.12, SQLAlchemy 2.0 (async), Alembic — deployed on Fly.io (Singapore) |
| Database                 | Supabase PostgreSQL with Row-Level Security, Upstash Redis                             |
| AI providers             | OpenAI, Anthropic, HuggingFace — automatic failover chain, currently on gpt-4o-mini    |
| Subscription plans       | 4 (Basic, Intermediate, Pro, Premium) — free tier removed                              |
| CV translation languages | 15+ (admin-manageable, no deploy required to add more)                                 |
| Database migrations      | 9 (initial schema through the 7-day trial system)                                      |
| Admin roles              | 6 roles across 10 permission-gated modules                                             |
| Commits to date          | 728 across both repositories (API + web)                                               |

# The Challenge

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Applicant Tracking Systems filter out a large share of resumes before a human recruiter ever opens them, and manually rewriting a CV and cover letter for every job posting does not scale past a handful of applications. Most tools in this space solve one piece of the problem — a scorer, a builder, or a tracker — which leaves job seekers stitching together several subscriptions and copy-pasting between them.

# The Solution

AI Resume Pro combines CV building, ATS scoring against a real job description, AI-tailored CV and cover letter generation, multi-language translation, and application tracking into a single subscription. The goal is to take a user from a job posting to a submitted, ATS-optimised application in minutes rather than hours, with the AI grounded in the user's own CV data rather than generic templates.

Three pillars organise the product end to end:

- Optimise — ATS score analysis and CV improvement for any uploaded or built CV.
- Generate — AI-tailored CVs and cover letters matched to a target job description.
- Apply — job discovery with match scoring and one-click optimise-and-apply.

# Architecture & Technology

| Layer        | Technology                                                                    |
|--------------|-------------------------------------------------------------------------------|
| Frontend     | Next.js 16.2.3, TypeScript, Auth.js v5, Tailwind CSS — Vercel                 |
| Backend      | FastAPI, Python 3.12, SQLAlchemy 2.0 (async), Alembic — Fly.io (Singapore)    |
| Database     | Supabase PostgreSQL, Row-Level Security on user-facing tables                 |
| Cache        | Upstash Redis                                                                 |
| AI           | OpenAI, Anthropic, HuggingFace — automatic failover chain, DB-managed prompts |
| Email        | Resend                                                                        |
| Billing      | Stripe + Razorpay (EUR)                                                       |
| File storage | Supabase Storage, 24-hour signed URLs — never direct public access            |

## Security Layers

- JWT session auth with single-use refresh-token rotation and a 60-second multi-tab grace window
- Separate admin JWT (type=admin\_access, 8-hour TTL) with a 30-second expiry warning and one-click refresh
- Bcrypt password hashing and account lockout after repeated failed logins
- Row-Level Security enabled on all user-facing Supabase tables
- Soft deletes across user-facing entities with a 30-day recovery window
- Immutable audit log — PostgreSQL RULEs block UPDATE/DELETE at the database level
- CV files served via Supabase signed URLs, 24-hour expiry
- AI spend cap with 80% / 95% / 100% usage alerts

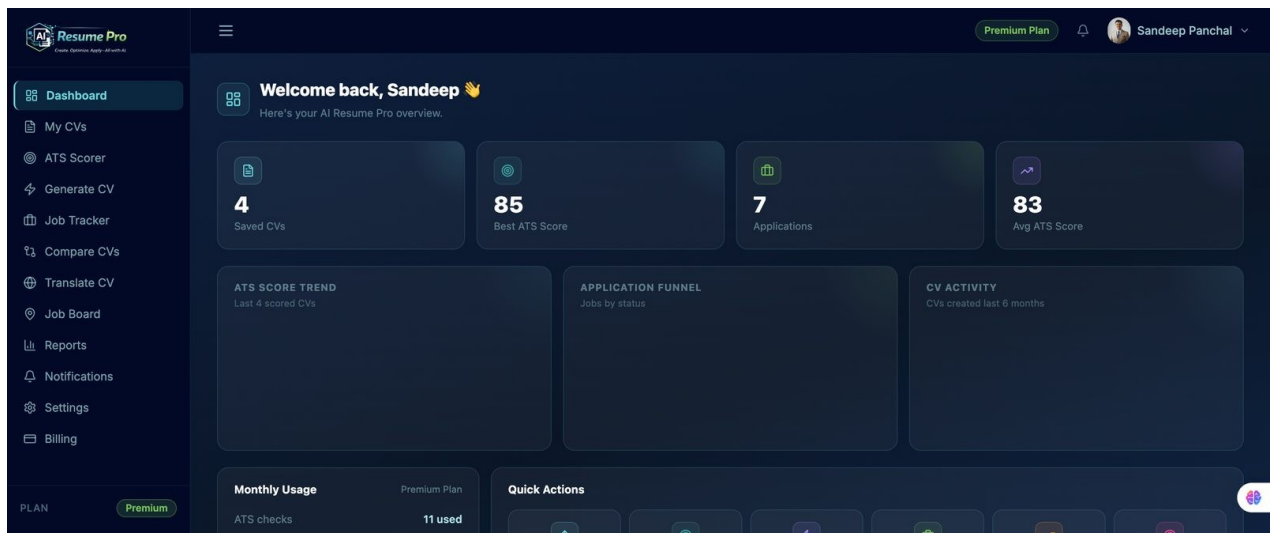
# Product Tour

Each module below is shown from the live product. Numbers and content visible in the screenshots are real beta data from the author's own account and admin session, not mockups.

## MODULE 01 / 12

### Dashboard

The dashboard is the hub for a user's CV portfolio and application activity: saved CVs, best and average ATS score, and application count, backed by trend charts for score history, application funnel, and CV creation activity – all computed live from that user's own data, not sample content.



User dashboard – beta account with real (unseeded) usage data.

## CV Editor

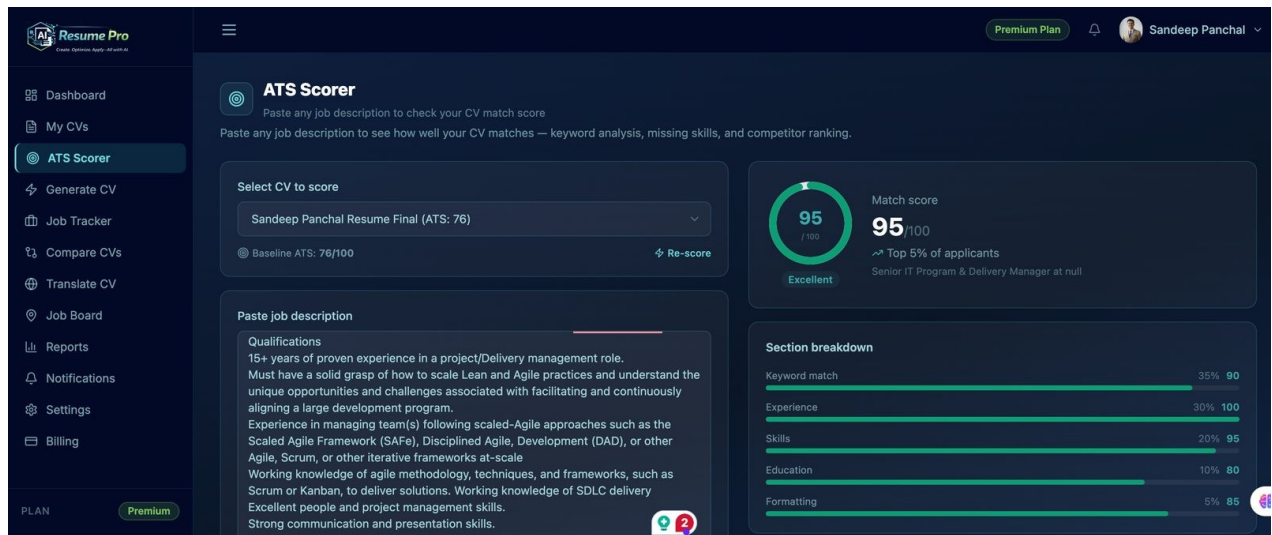
A guided, tabbed editor — Personal, Summary, Experience, Education, Skills, Certifications, Projects, Template, Design — backs every CV, whether uploaded or built from scratch. Saving triggers a non-blocking ATS scoring pass in the background, with DOCX/PDF export and a live section-level ATS breakdown alongside the form.

The screenshot displays the AI Resume Pro CV Editor interface. The left sidebar contains navigation links: Dashboard, My CVs (active), ATS Scorer, Generate CV, Job Tracker, Compare CVs, Translate CV, Job Board, Reports, Notifications, Settings, and Billing. The main area is titled 'Sandeep Panchal - PM' and features a tabbed editor with tabs for Personal, Summary, Experience, Education, Skills, Certifications, Projects, Template, and Design. The 'Personal' tab is active, showing fields for Profile Photo (with an 'Upload Photo' button), Full Name (Sandeep Panchal), Job Title (Senior IT Program Manager), Email (panchalsandeep@gmail.com), Phone, Location (Ahmedabad, India), and Website / Portfolio (https://mysite.com). The right sidebar displays the 'ATS Score' panel, which shows a score of 85 (Excellent) and a breakdown of scores for Keywords (35% 80), Experience (30% 90), Skills (20% 85), Education (10% 70), and Formatting (5% 90). Below the score panel, there is a section for 'Improvements (2)' with a note: 'Lack of specific keywords related to job description'.

Tabbed CV editor with live ATS score panel (phone number redacted for this document).

## ATS Scorer

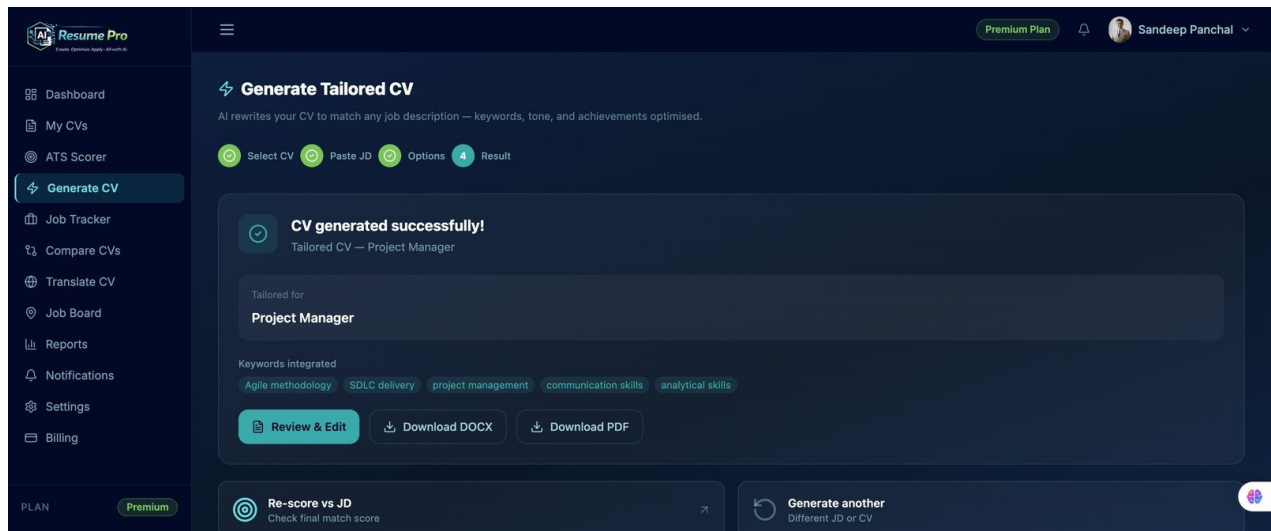
Pasting any job description against a saved CV produces a 0–100 match score with a section-level breakdown (Keywords, Experience, Skills, Education, Formatting), a prioritised list of improvements, and a competitive read (“Top X% of applicants”).



ATS Scorer – CV matched against a real pasted job description.

## Generate Tailored CV

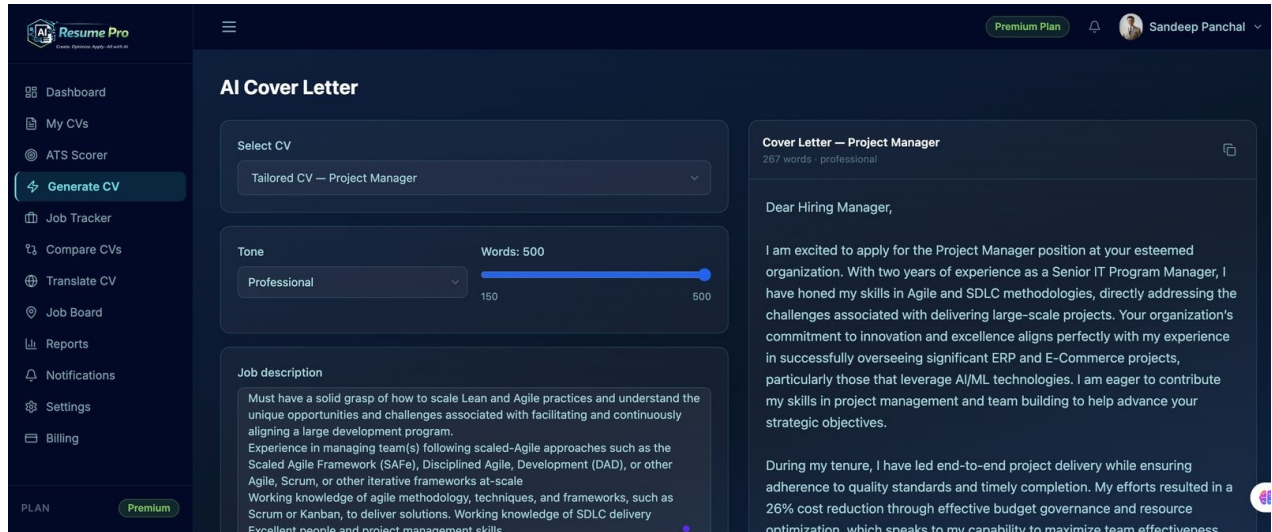
A four-step wizard (Select CV → Paste JD → Options → Result) rewrites a CV against a target job description in one of four tones — Professional, Confident, Technical, Creative — and returns a new tailored version with the keywords it wove in, ready for DOCX or PDF download.



Generate CV — result step after a four-step tailoring wizard.

## AI Cover Letter

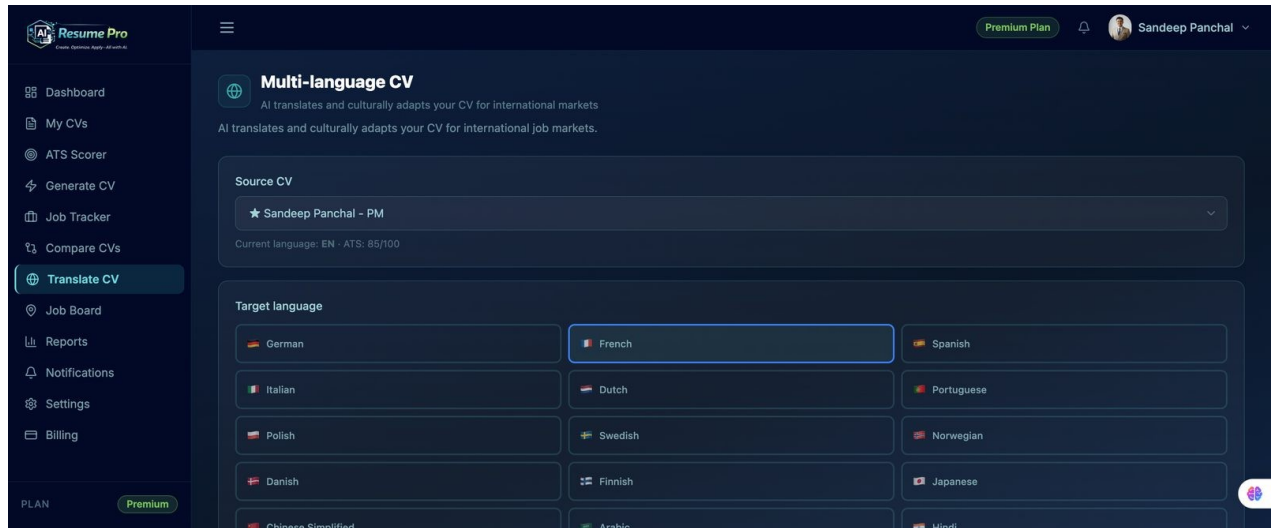
Generates a cover letter from any saved CV and job description, with adjustable tone and word count (150–500 words), grounded in the CV's actual experience rather than generic filler.



*AI Cover Letter — generated from a tailored CV and the target job description.*

## Translate CV

Full CV translation and cultural adaptation, not literal machine translation — the AI restructures sections and register to match local CV conventions (for example, formal address and section-naming differences in German and French CVs). The language list is admin-managed and can grow without a deploy.



Multi-language CV translation — 15+ target languages visible in this single screen.

## Compare CVs

Scores two CV versions against the same job description side by side and returns a ranked recommendation with rationale — useful for deciding between a baseline and an AI-tailored version before applying.

**Dual CV Compare**  
Score two CVs against the same job description and see which wins.

Score two CVs against the same job description and see which one wins.

**CV A**  
★ Sandeep Panchal - PM (85/100)

**CV B**  
Tailored CV — Project Manager (68/100)

**Job description**  
aligning a large development program. Experience in managing team(s) following scaled-Agile approaches such as the Scaled Agile Framework (SAFe), Disciplined Agile, Development (DAD), or other Agile, Scrum, or other iterative frameworks at-scale. Working knowledge of agile methodology, techniques, and frameworks, such as Scrum or Kanban, to deliver solutions. Working knowledge of SDLC delivery. Excellent people and project management skills.

**Sandeep Panchal - PM**  
75 / 100

**Tailored CV — Project Manager**  
90 / 100

**Recommendation**  
CV B is the stronger choice as it aligns more closely with the job description, particularly in terms of Agile methodologies and project management experience. It also emphasizes communication and stakeholder management, which are crucial for the role.

**Sandeep Panchal - PM**  

- Extensive experience in program management with over 25 years.
- Strong skills in Agile and Scrum methodologies.

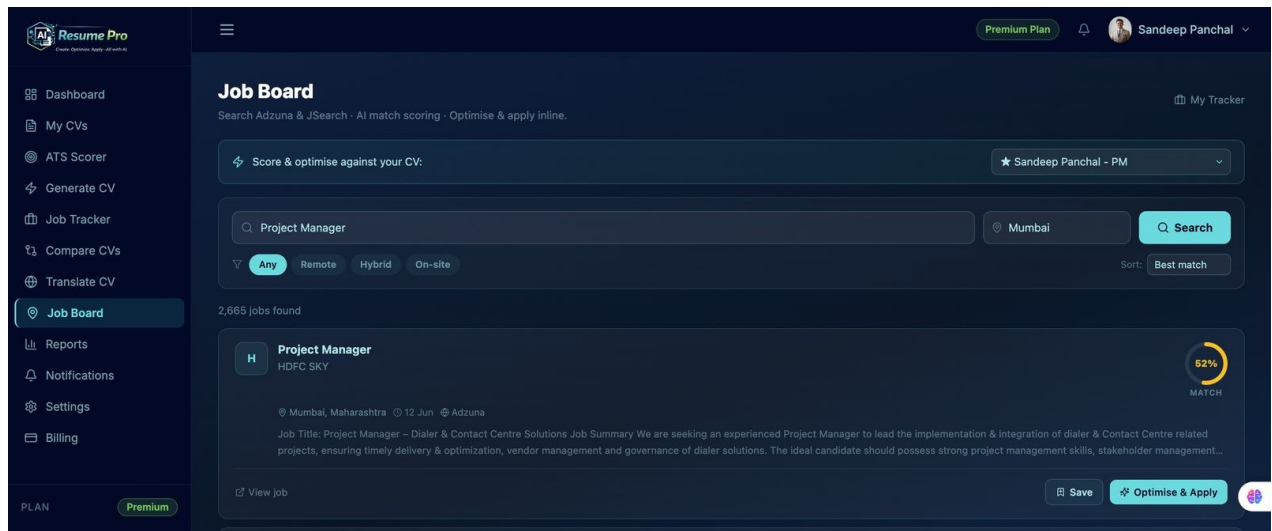
**Tailored CV — Project Manager**  

- Demonstrates a clear understanding of Agile and SDLC methodologies.
- Highlights experience in managing large-scale projects and team building.

Dual CV Compare — baseline CV against its AI-tailored version, same job description.

## Job Board

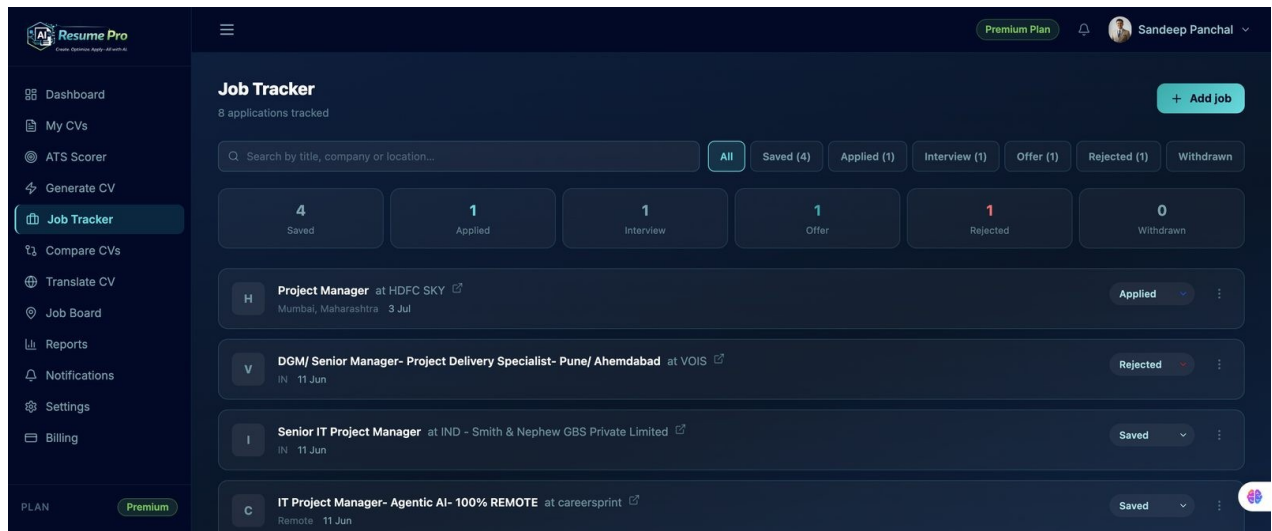
Live job search across Adzuna and JSearch with AI match scoring per listing against the user's CV, remote/hybrid/on-site filtering, and a one-click "Optimise & Apply" flow that generates a tailored CV and cover letter and opens the employer's application portal.



Job Board – live Adzuna results with per-listing AI match scoring.

## Job Tracker

A six-status pipeline — Saved, Applied, Interview, Offer, Rejected, Withdrawn — tracks every application with per-stage counts and inline status changes, so a user has one place to see where each application stands.



*Job Tracker — six-stage pipeline with live counts per stage.*

## Admin — Platform Overview

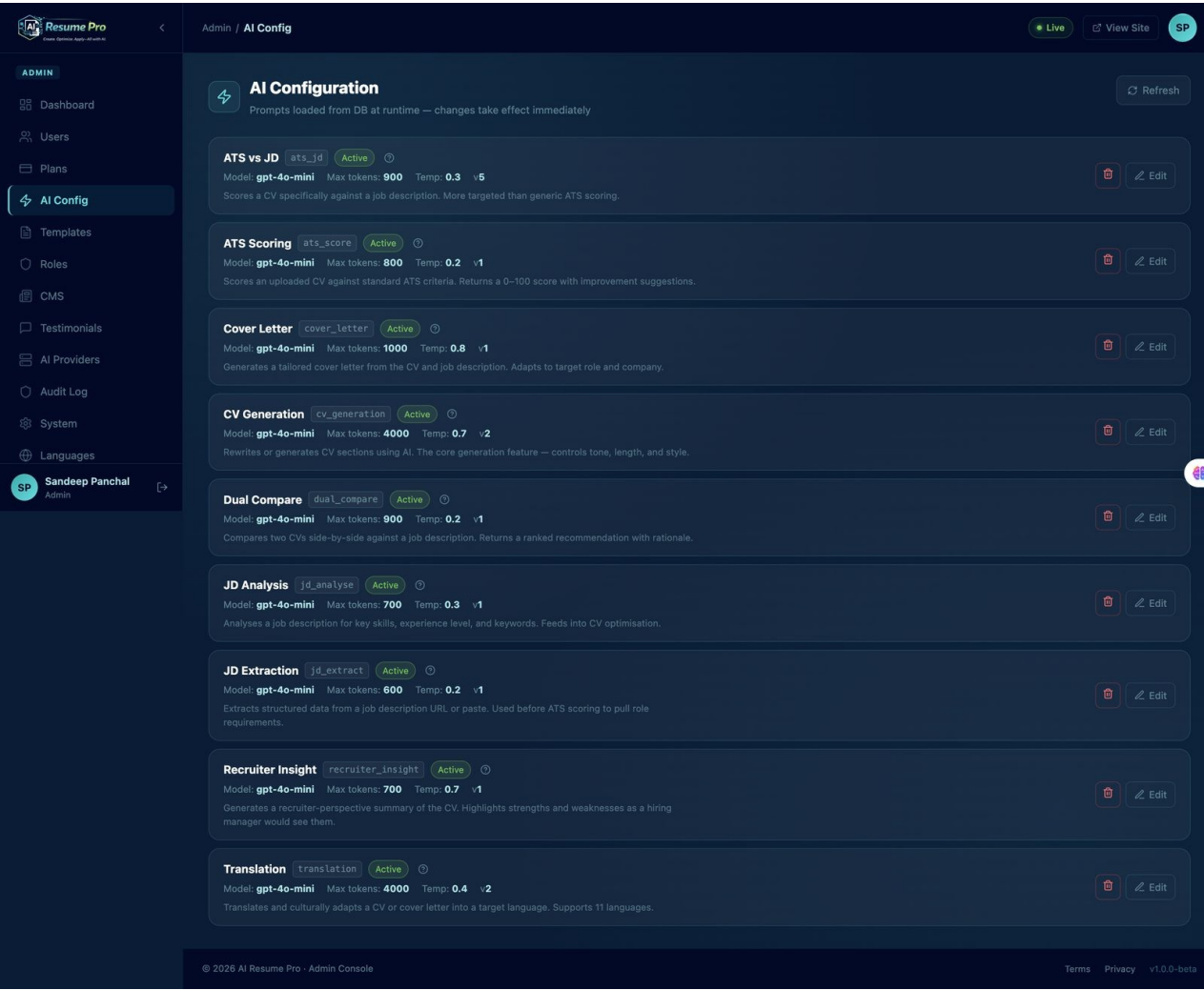
Live KPIs — users, AI calls, tokens consumed, CVs created, MRR, conversion — computed directly from the database, alongside registration and CV-upload trend charts and a one-click status check across the API, AI provider, database, auth, and storage layers.



Admin dashboard — live figures from production, 3 July 2026 (beta scale, not marketing copy).

# Admin — AI Configuration

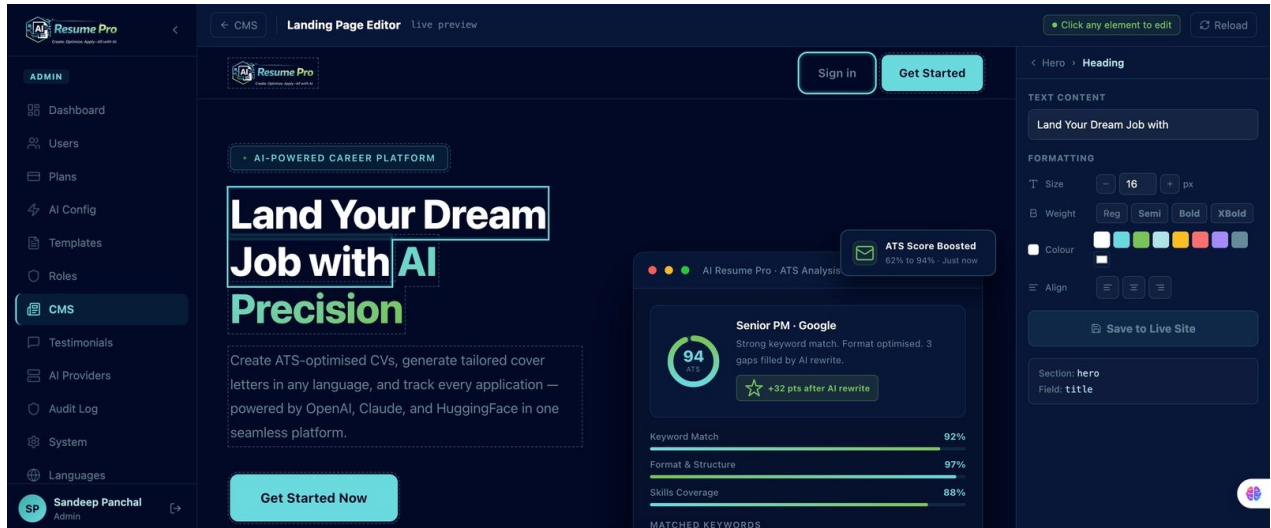
Every AI feature — ATS scoring, ATS-vs-JD, cover letter, CV generation, dual compare, JD analysis, JD extraction, recruiter insight, and translation — is configured here with its model, max tokens, temperature, and prompt version. Changes take effect immediately; no deploy is needed to tune a prompt or raise a token cap.



AI Configuration — all 9 AI features, DB-managed prompts, live from production.

## Admin — CMS Visual Builder

A GrapeJS-based drag-and-drop editor lets an admin edit the public landing page's sections — hero, features, pricing, testimonials, and more — element by element, with text, size, weight, colour, and alignment controls, and one-click publish straight to the live site.



CMS Visual Builder — GrapeJS-based drag-and-drop editing of the live landing page.

# Security & Roles

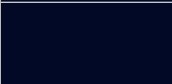
The admin portal supports 6 staff roles, each with a per-module permission level — None, View, Edit, or Full — across 10 modules. This is the exact default permission matrix seeded for every new deployment (migration 007); Super Admin can edit any role’s permissions live from /admin/roles.

| Role            | Users | Plans | Templ<br>ates | AI<br>Config | Report<br>s | Audit<br>Log | Roles | Syste<br>m | Integ. | Notif. |
|-----------------|-------|-------|---------------|--------------|-------------|--------------|-------|------------|--------|--------|
| Super Admin     | Full  | Full  | Full          | Full         | Full        | Full         | Full  | Full       | Full   | Full   |
| Product Manager | None  | Full  | Full          | Full         | View        | View         | None  | None       | View   | Full   |
| Support Agent   | Edit  | View  | View          | None         | View        | View         | None  | None       | None   | View   |
| Finance Manager | View  | Edit  | None          | None         | Full        | View         | None  | None       | View   | None   |
| Content Manager | None  | None  | Full          | View         | None        | View         | None  | None       | None   | Full   |
| Analyst         | View  | View  | View          | View         | Full        | View         | None  | None       | None   | None   |

Full = complete control · Edit = create/update, no delete · View = read-only · None = hidden

# Design System

Colours and type are pulled directly from the product's CSS custom properties (app/landing.css) — the same tokens the live site uses, not a separate brand file.

| Swatch                                                                              | Name   | Hex     | Usage                                            |
|-------------------------------------------------------------------------------------|--------|---------|--------------------------------------------------|
|    | Navy   | #020926 | Primary background, headings, high-contrast text |
|    | Navy 4 | #102252 | Elevated surface / card background               |
|    | Cyan   | #6BDADF | Primary accent, highlights, gradients            |
|    | Cyan 2 | #3DB8BE | Links, active states, rules                      |
|   | Teal   | #3BAAAA | Secondary accent, section headers                |
|  | Green  | #7AC55A | Success states, positive metrics                 |
|  | Light  | #B0E4E8 | Muted text on dark backgrounds                   |
|  | White  | #FFFFFF | Body copy on dark surfaces                       |

## Typography

Plus Jakarta Sans is the product's typeface across headings and UI text, paired with a consistent scale for hero, section, and body copy. This document uses a matching pairing (Poppins / Lato) to keep it self-contained without embedding webfonts in the .docx.

# Engineering & Delivery Practice

The platform shipped in ten numbered sprints (S0–S9) plus a post-launch phase covering billing, the CMS builder, the trial system, and live bug fixes — 728 commits across the two repositories between 7 April and 3 July 2026.

| Sprint | Delivered                                                                              |
|--------|----------------------------------------------------------------------------------------|
| S0     | Project scaffold — Docker, Supabase migrations, test config, env system                |
| S1     | Authentication — email/JWT sessions, Auth.js v5, proxy middleware, legal pages         |
| S3     | CV module — library, upload, builder wizard, 6-tab editor, DOCX/PDF export             |
| S4     | ATS engine — CV/JD scoring UI, section breakdown, recruiter perspective, score history |
| S5     | AI generation — 4-step CV wizard, cover letter generator, CV translation               |
| S6     | Dashboard, Compare & Job Tracker — live stats, dual compare, 6-status tracker          |
| S7     | Admin portal — 9 pages: KPIs, users, plans, AI config, templates, audit log, RBAC      |
| S8     | Job Board — Adzuna/JSearch search, match scoring, one-click apply, Premium gate        |
| S9     | Reports & Notifications — analytics dashboard, typed notification centre               |
| S10+   | Stripe/Razorpay billing, CMS visual builder, 7-day trial system, production bug fixes  |

## Architecture Principles

- No hardcoded plan logic — RequireFeature/RequireQuota read live from plans.features JSONB
- AI quota increments via direct, atomic SQL UPDATE rather than the billing service
- ATS scoring runs in a background async task — never blocks the request
- Soft deletes and an immutable, database-enforced audit log across user-facing entities
- Admin updates use partial payloads (model\_dump(exclude\_unset=True)) to avoid clobbering unrelated fields
- AI prompts, token caps, temperature, and model choice are DB-managed and version-tracked

# Current State & Roadmap

## Current State — Live Production Data (3 July 2026)

Pulled directly from the admin dashboard at the time of writing. The platform is in beta with a small internal user base — these are real, unseeded numbers, not the marketing figures (“94% ATS Pass Rate”, “12K+ Hired”) shown on the public landing page, which are placeholder copy pending real customer data.

| Metric                             | Value                                       |
|------------------------------------|---------------------------------------------|
| Total users                        | 4                                           |
| Active users (30 days)             | 2                                           |
| Monthly recurring revenue          | €0 (beta — all plans currently free to use) |
| AI calls (30 days)                 | 120 (27 CVs generated in that window)       |
| CVs created (all time)             | 28                                          |
| AI tokens consumed (all providers) | 349,000                                     |
| Admin users with portal access     | 2                                           |

## Roadmap

- 7-day free trial system: built and deployed, trial dates recorded for every new verified user; enforcement sits behind a single database flag so it can switch on without a deploy
- Sprint S10: complete the Stripe checkout/webhook/customer-portal flow (billing schema and Razorpay EUR path are already live)
- Move long-running AI operations (translate, generate) from the synchronous proxy path to a background-task-plus-polling pattern as CV sizes grow
- Continue expanding the admin-managed language list and AI prompt library based on real usage once the user base grows past the current beta cohort

# About the Builder

AI Resume Pro was designed, built, and is operated end to end — product decisions, database schema, backend and frontend engineering, AI prompt design, and production operations — by a single founder-engineer.

| Field        | Detail                                                                             |
|--------------|------------------------------------------------------------------------------------|
| Name         | Sandeep Panchal                                                                    |
| Email        | panchalsandeep@gmail.com                                                           |
| Location     | Ahmedabad, India                                                                   |
| Product      | www.ai-resume.pro                                                                  |
| Repositories | github.com/panchalsandeep/resumeai-web ·<br>github.com/panchalsandeep/resumeai-api |

*This document was generated from the project’s BRD/FRD, database migrations, live codebase, and the production admin dashboard as of July 2026 — every figure and feature claim in it traces back to one of those sources.*