

JobNet — Agentic Career Pipeline

Executive framing

JobNet is an agentic application-generation pipeline under active construction for Mens Mercatus. This brief is a design/architecture artifact for portfolio readers — dense, technical, and explicit about what is designed versus what is proven live. Scrapers have not been claimed as fired. The macOS backend on :8766 is called out as in progress. Apply remains draft-only with a human confirmation gate.

System thesis

Treat hiring surfaces as a retrieval + ranking + generation workflow: ingest role corpora from LinkedIn and Glassdoor, embed and rank against a fixed core résumé prior, run LLM-assisted tailoring with constrained rewriting (emphasis shift, not fabrication), then emit AI Hawk application drafts as staged artifacts. Downstream: Gmail reply monitoring as an event stream, 24-hour nudge policies as temporal evals on human action latency. Notify path is email-only from Cartel HQ — no SMS channel.

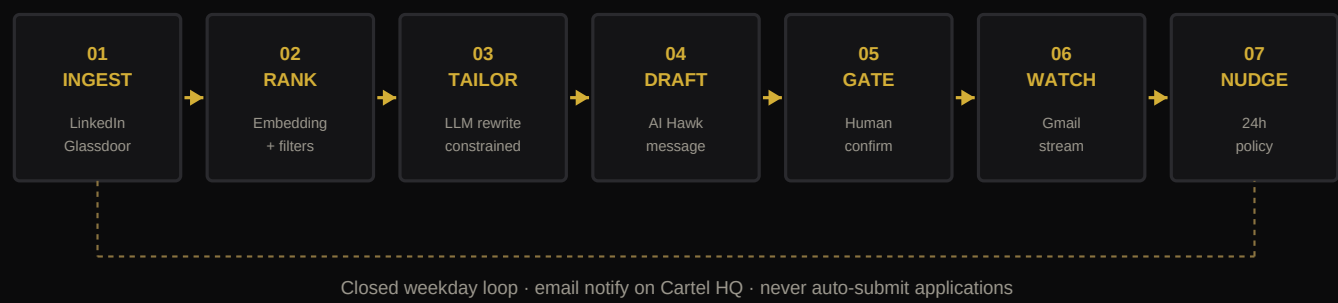
RETRIEVAL · SOURCES In scope: LinkedIn, Glassdoor Deferred: Indeed, early-stage boards Listing objects: title, org, URL, location, seniority, skills tags Dedup key: canonical URL + hash Cadence: weekday 12:00 SAST scrape	GENERATION · TAILOR Core résumé = immutable prior Per-role emphasis redistribution LLM-assisted rewrite with guardrails No invented employers / metrics Artifact: review PDF per listing Cadence: weekday 03:00 SAST batch	AGENTS · AI HAWK Draft application messages only Human-in-the-loop confirm gate No silent submit / no auto-send Gmail reply watch + 24h nudge Eval: draft quality + latency budget Notify: Cartel HQ email only
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Non-goals (explicit)

- Not a claim of production scrape uptime or ranking quality SLOs.
- Not unsupervised application spam — draft-only is a hard product constraint.
- Not a completed :8766 backend — Job-Net.app WebKit shell expects it; payload absent from zip.

Schematic A — Control loop

scrape → retrieve/rank → tailor → draft → confirm → watch → nudge

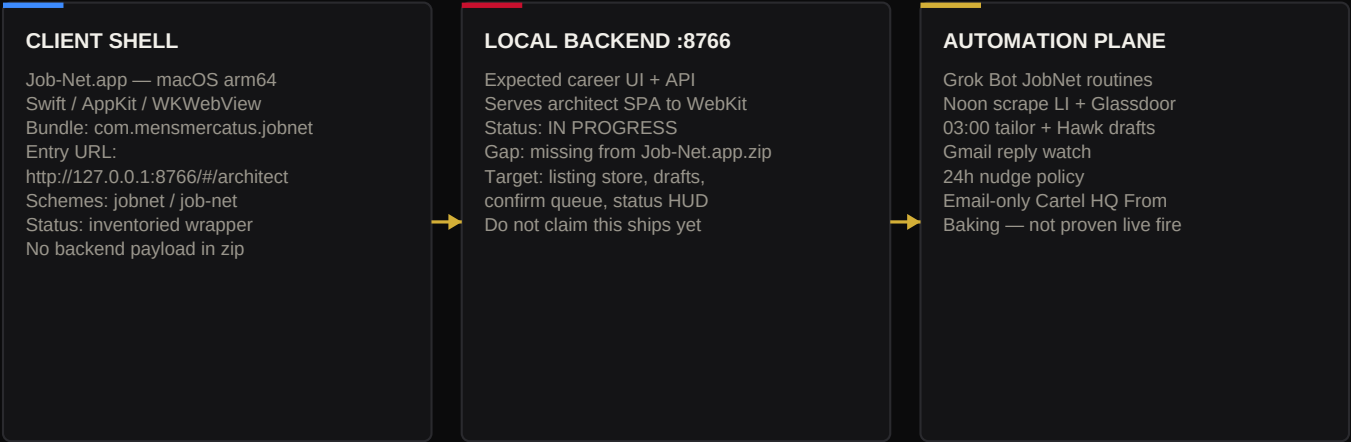


ML / systems vocabulary (as designed)

Retrieval corpus	Role postings as documents; metadata filters for seniority, geo, and stack tags before dense ranking.
Ranking objective	Similarity of listing embeddings to core résumé + target-role prior; manual allowlist can override.
LLM-assisted tailoring	Constrained generation: reorder emphasis, mirror JD keywords, forbid hallucinated employers/metrics.
Agentic draft step	AI Hawk produces tool-mediated application drafts; commit requires explicit human confirmation.
Evals	Draft faithfulness vs résumé facts; keyword coverage vs JD; human accept/reject rate; time-to-confirm.
Latency budgets	Scrape batch within noon window; tailor batch overnight; reply watch near-real-time vs nudge ≈24h.

Schematic B — Runtime topology

Job-Net.app · :8766 backend (in progress) · automation routines



Notify + compliance surface

Outbound notifications: email only to `katlego.mokoto.km@gmail.com`, From Mens Mercatus Cartel Headquarters `<mensmercatuscartelheadquarters@gmail.com>` via connected Gmail / Send-as — never spoof. SMS number and providers are out of scope. Application emails and board submits stay draft-staged until the user confirms.

WEEKDAY CADENCE (DESIGNED)	
12:00 SAST	Ingest + rank pass over LinkedIn / Glassdoor corpora
03:00 SAST	Tailor PDFs + AI Hawk draft generation (confirm queue)
09:33 · 17:33	Gmail reply retrieval / classification for JobNet threads
08:33 · 14:33	24h nudge if human action latency exceeded

Eval plan · risks · portfolio note

[How to read this artifact](#)

Evaluation axes (when live)

- Faithfulness — draft claims $\subseteq$ résumé + listing facts (hallucination rate $\rightarrow 0$).
- Coverage — JD keyword / skill overlap after tailor vs baseline résumé.
- Human gate latency — time from draft ready $\rightarrow$ confirm/reject.
- Reply recall — fraction of recruiter replies detected within watch windows.
- Nudge precision — nudges that produce user action within 24h of ping.

Primary risks

- Board ToS / anti-bot constraints on LinkedIn & Glassdoor ingestion.
- LLM drift inventing experience — mitigated by constrained prompts + review PDFs.
- From-line spoofing risk — Cartel HQ send requires real account/Send-as.
- Shell/backend skew — WebKit app unusable until :8766 service exists.

PORTFOLIO READING GUIDE

This PDF is the JobNet skeleton: we're baking an agentic career pipeline with retrieval, ranking, LLM-assisted tailoring, and a human-gated draft agent. It is not a production status report. Pair with the Job-Net.app inventory and routine configs. Demo video (if attached) uses a synthetic narrator — call audio is transcript-only, so voice cloning from the live call was not feasible.