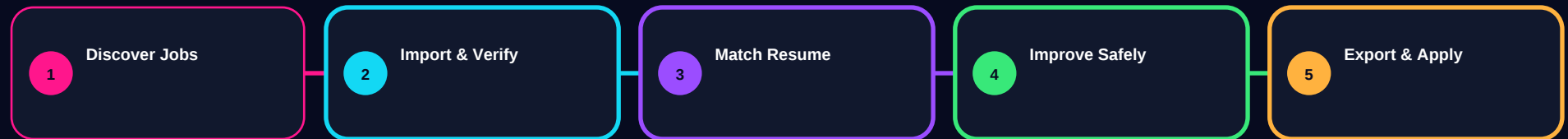


CUSTOM AI JOB SEARCH & RESUME MATCH SYSTEM

From fragmented job searching to an integrated AI-assisted workflow



PORTFOLIO CASE STUDY

A custom product designed and developed by DC Design Haus. This is not presented as a client project and contains no fabricated performance metrics or testimonials.



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The Problem

Job searching is not one task. It is a chain of disconnected tasks repeated for every opportunity.

FRAGMENTED DISCOVERY

Opportunities arrive from different ATS platforms and job sources, requiring repeated searching and verification.

MANUAL COMPARISON

Each posting must be compared against a resume for requirements, keywords, evidence, and gaps.

REPEATED APPLICATION WORK

Tailoring, cover letters, outreach, exporting documents, and application tracking repeat for every role.

Design question

How can the workflow be connected without allowing AI to invent experience or take consequential decisions away from the user?



The Solution

A connected job-search engine and Resume Match workflow with distinct public and private product surfaces.



PRIVATE JOB-SEARCH ENGINE

A protected workflow discovers and rechecks postings, supports remote filtering and status management, and passes selected job information into Resume Match.

PUBLIC RESUME MATCH APPLICATION

A separate public tool supports job import, resume upload, matching, evidence-grounded improvements, document preview/export, and completion/privacy controls.

Architecture principle

Keep private job-discovery and tracking functions separated from the public-facing Resume Match experience while sharing the appropriate application core.

Resume Match & Truth Guard

AI recommendations remain tied to evidence already present in the candidate's source resume.

MATCH

Compare resume content with a target job posting and surface alignment.

REVIEW

Present strengths, improvement opportunities, gaps, and deeper analysis.

IMPROVE

Offer AI-assisted wording improvements grounded in supported evidence.

VALIDATE

Reject unsupported numeric claims and preserve resume structure.

APPROVE

Keep the user in control of whether suggested changes are applied.

UNDO

Support deletion, rescoring, revision, and recovery instead of irreversible rewriting.

Truth Guard

The product was designed to improve presentation of supported experience, not manufacture qualifications, tools, accomplishments, or claims that the source resume does not support.



End-to-End Workflow

One product flow carries the user from opportunity review through tailored application materials.



Implemented workflow capabilities

- Import and verify job information from supported ATS/job-posting sources.
- Upload resume content and review job-match analysis in a guided multi-step interface.
- Use compact Strong, Improve, and Gaps review cards with deeper analysis available when needed.
- Apply evidence-supported AI improvements, recalculate, delete individual items, and undo revisions.
- Preview and export resume documents in PDF and Word formats.
- Support cover-letter and outreach preparation while maintaining identity and privacy safeguards.
- Mark applications and retain a private application archive with duplicate prevention and restore capability.

Product Architecture & Production QA

The portfolio value is not only the interface; it includes separation, resilience, privacy, deployment, and testing.

PUBLIC / PRIVATE SEPARATION

Public Resume Match and protected job-search/development surfaces remain distinct.

SHARED APPLICATION CORE

Shared Resume Match JavaScript/CSS and aligned APIs reduce divergence between environments.

RESPONSIVE EXPERIENCE

Desktop workflow was extended to a tested phone/mobile experience with sitewide navigation behavior.

PRIVACY CONTROLS

Finish-and-clear behavior, private controls, access protection, and environment boundaries were validated.

RESILIENCE

Rate-limit/fallback behavior and ATS import recovery were incorporated into the workflow.

REGRESSION QA

Deployment checks included syntax, alignment, asset/version, environment, workflow, and real-device validation.

Design Decisions

Automation was used selectively, with evidence, human control, and recovery built into the product.

-  **AUTOMATE REPETITION** Reduce repeated searching, copying, comparison, document preparation, and tracking.
-  **DO NOT FABRICATE** AI wording changes must remain supported by the candidate's original evidence.
-  **PRESERVE HUMAN REVIEW** The user decides which recommendations to accept and when an application is ready.
-  **PROTECT STRUCTURE** Tailoring logic was tightened to avoid partial, duplicate, or structurally damaging rewrites.
-  **DESIGN FOR RECOVERY** Delete, undo, restore, fallback, and recheck behavior make the workflow resilient.
-  **SEPARATE CONCERNS** Private job discovery/tracking and public Resume Match serve different audiences and access needs.



What This Demonstrates

A working example of AI strategy translated into workflow architecture, product design, implementation, and QA.

AI STRATEGY

Identify where AI adds value and where it should not make decisions.

WORKFLOW ARCHITECTURE

Connect discovery, analysis, tailoring, export, application, and tracking.

AUTOMATION

Reduce repetitive work while preserving review and exception handling.

PRODUCT DESIGN

Turn a multi-step professional workflow into a usable public/private web product.

HUMAN OVERSIGHT

Require evidence and user approval for consequential resume changes.

IMPLEMENTATION

Move from concept through development, deployment, regression testing, and production validation.

AI SOLUTIONS FOR REAL WORK

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