

My IT Studio Job Platform

A centralized job aggregation web application
-scraping, normalizing and presenting job listings from
multiple Australian platforms inside a Shopify storefront.

CLIENT

My IT Studio
Jessie Hou -Technical Director
info@my-it.com.au

utas-ict-project-2026.myshopify.com
Password : kit300

TEAM

Connor Geldard

Joshua Crisford

Ishant Goel

Lishara Thapa

Junaid Bin Habib

Hang Wan

PROBLEM & OBJECTIVES

"Job listings are scattered across multiple platforms making it hard for seekers and employers to see the full market."

My IT Studio engaged our team to build a centralized job platform that brings listings from Seek, LinkedIn, Jora, and CareerOne into one searchable Shopify-based system. It reduces manual job searching though automated scraping, deduplication, and personalized job discovery.

- Aggregate jobs from multiple Australian platforms automatically.
- Deduplicate - one entry per job, all source URLs preserved
- Personalise - recommendations, bookmarks, company follows, alerts
- Enterprise analytics - usage metrics, salary insights, scraper monitoring

AT A GLANCE

1,288+
Live Job Listings

11
Database Tables

4
Data Source

SYSTEM USERS

Standard User — Job Seeker

- Searches and filters jobs by keyword, location, category, and level.
- Bookmark listings and follow companies / categories.
- Email alerts for newly matched roles.
- Redirect to original listing on chosen source platform.

Enterprise User — Admin

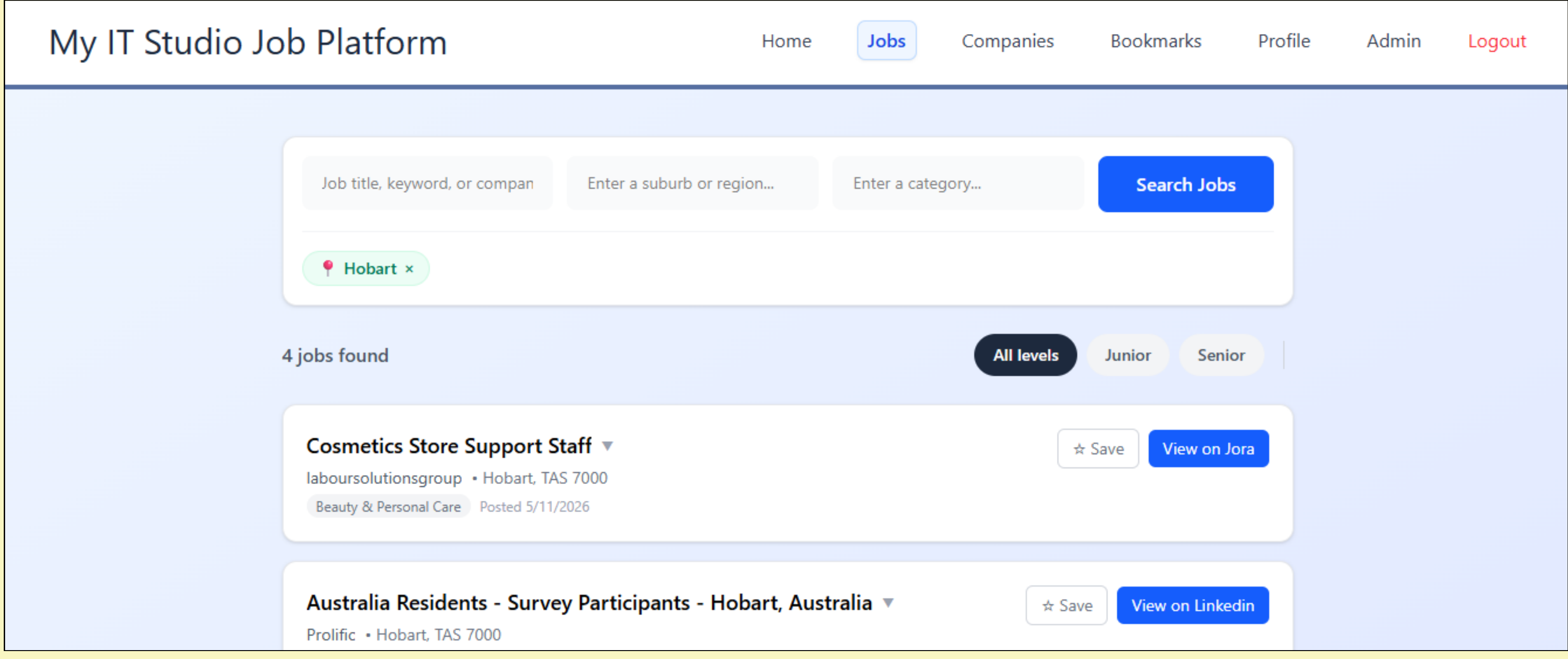
- Manually add and mange job listings.
- Monitor scraper status and run history.
- View analytics dashboard.
- Manage users and assign enterprise roles.

TECHNOLOGY STACK

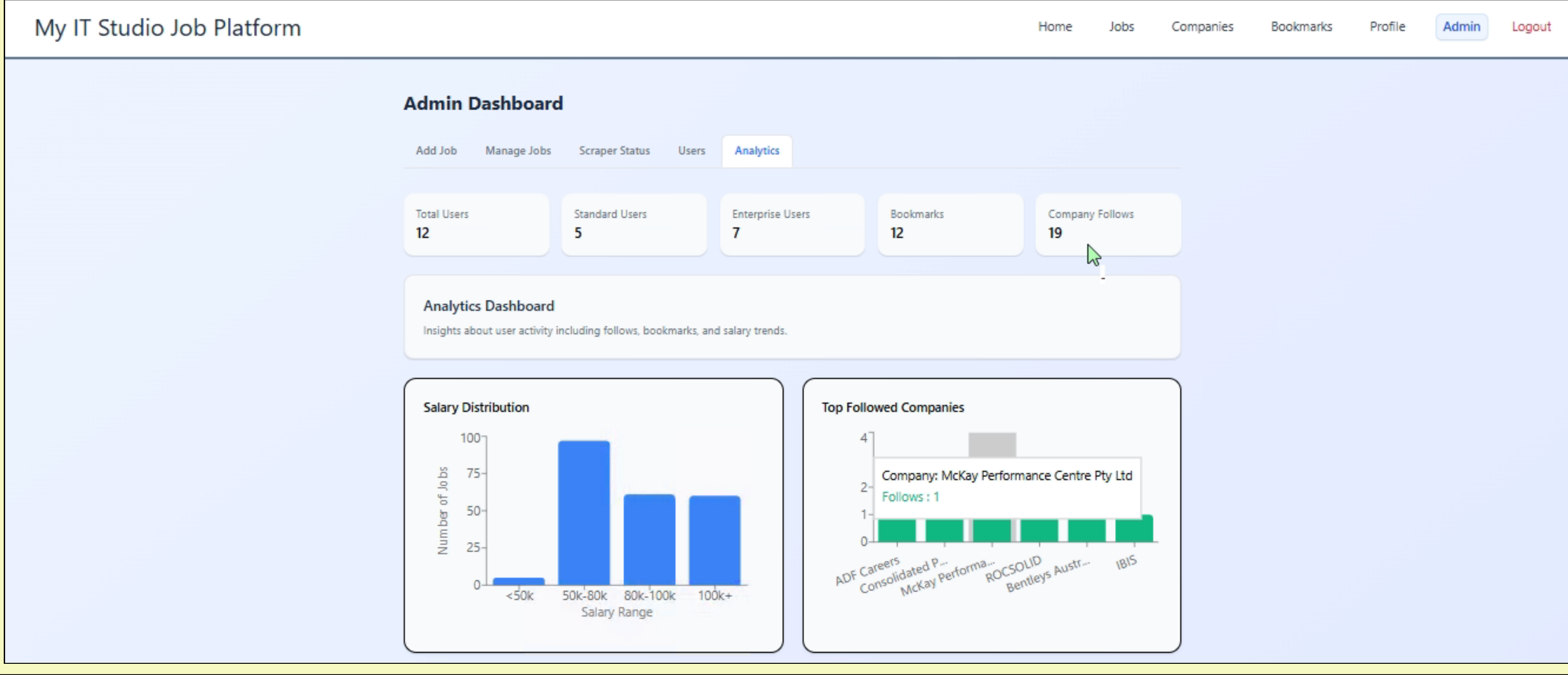
• LANGUAGE	TypeScript 5.9.3
• FRONT-END	React 19.2.0 + Tailwind CSS 4.2.1
• BUILD	Vite 7.3.1 + React Router 7.13.1
• CHARTS	Recharts 3.8.1
• BACK-END	Node.js + Express 5
• SCRAPING	Puppeteer + puppeteer-extra-plugin-stealth
• DATABASE	PostgreSQL (via Supabase)
• AUTH	bcrypt + jsonwebtoken
• EMAIL	Nodemailer (SMTP)
• CI/CD	GitHub Action + Vercel
• CMS	Shopify (Horizon Theme)
• VERSION CONTROL	Git / GitHub

PLATFORM PREVIEW

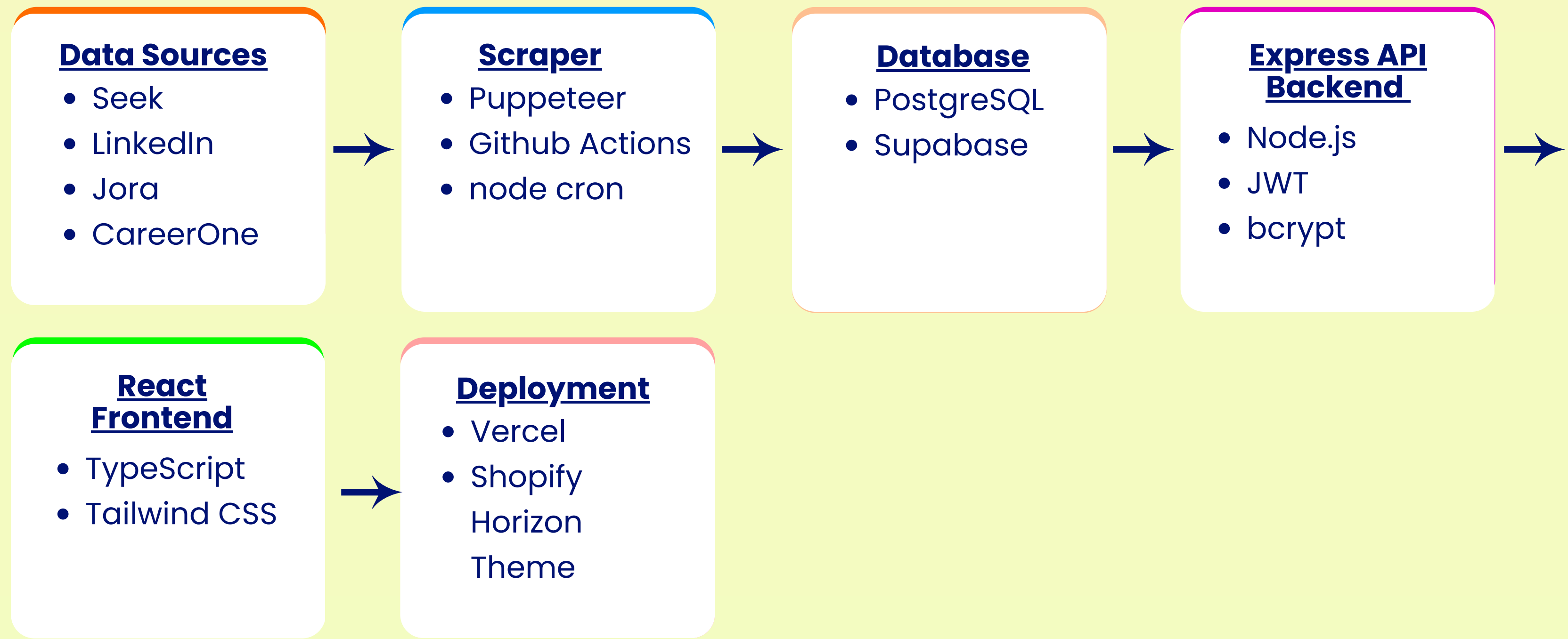
ScreenShot 1 - Job Search & Filtering



ScreenShot 2 - Enterprise Admin & Analytics



SYSTEM ARCHITECTURE



KEY FEATURES

- Multi-Source Scraping:** Puppeteer + GitHub Actions scrape Seek, LinkedIn, Jora & CareerOne nightly (2AM AEST). Stealth mode improves reliability
- Smart Deduplication:** Removes duplicate jobs using title, company, and location matching while preserving all source links.
- Auth-Gated Apply Links:** Users must log in to access external apply links. Supports platform-specific redirects (Seek, LinkedIn, etc.).
- Personalised Homepage:** Recommends jobs based on followed companies, categories, and user preferences. New users see trending jobs.
- Email Alerts:** Daily email notifications for new matching jobs using user preferences (companies + categories).
- Enterprise Admin:** Secure admin dashboard with JWT authentication, user management, scraper monitoring, and analytics (salary, trends, usage).