

Technologies Used

GA HireSync is built using a modern full-stack architecture to ensure scalability, maintainability, and performance. Below are the primary technologies and tools used:

Backend

- **Django** – Python web framework for rapid development and secure backend logic.
 - **Version:** 5.0.6
 - **Features Used:** Django ORM, Middleware, Authentication System, Django REST Framework (for APIs), Celery (for messaging), Redis (message broker)
- **Django REST Framework (DRF)** – Provides RESTful APIs to handle communication between frontend and backend.
 - **Version:** 3.15.1
- **Python** – Core programming language for backend development.
 - **Version:** 3.x

Frontend

- **React.js** – JavaScript library for building interactive UIs.
 - **Version:** 18.x (*replace if different*)
 - **Bundler:** Vite (for fast builds and hot reloading)
- **Ant Design / Material UI** (*if used*) – UI component library for consistent styling.

Database

- **PostgreSQL** – Relational database for storing structured application data.
 - **Version:** 14.x (*replace if different*)
- **pgAdmin** (*optional*) – Database management and visualization tool.

Authentication & Security

- **JWT-based authentication** – Using Django SimpleJWT for secure token-based authentication.
- **CSRF Protection** – Built-in Django protection for secure form submissions.
- **Password Hashing** – Django's built-in user session and password hashing mechanism.

Caching / Queues

- **Redis** (*if used*) – For caching and background task queues.

Deployment & DevOps

- **Docker** – Containerization for consistent deployment environments.

- **Nginx** – Reverse proxy and load balancing.
- **Gunicorn / uWSGI** – WSGI HTTP server for running Django apps.
- **PM2** (*if used*) – Process management for frontend or Node-based services.

Version Control

- **Git & GitHub** – Source code management and version control.

Others

- **Celery** (*if used*) – Task scheduling and background jobs.
- **Third-party APIs / Integrations** – (e.g., Google, AWS, payment gateways).