Career Counseling & Guidance App - Architecture Diagram

Microservice-style separation: UI (Next.js) -> REST API (Node/Express) -> PostgreSQL (Prisma) + External AI

DevOps

Docker Compose • GitHub Actions (CI/CD)

Users

- Student (Kevin)
- Career switcher (Maria)
- Admin

uses

Frontend (UI)

Next.js + Shadcn UI
Login / Profile
Assessment form
Results & dashboard

Backend API

Node.js + Express (REST)
JWT auth (issue/validate)
Validation + business logic
Audit logging

Auth
Profile
Assessment
internal Recommendation engine
Resume keyword analysis
Admin (CRUD datasets)
AuditLog

Client

Web browser
HTTPS

HTTPS

REST/JSON

Prisma

read/write

API call

Database

PostgreSQL
Prisma ORM (backend only)
Entities: User, Profile, Assessment,
Recommendation, LearningPlan,
ResumeAnalysis, AuditLog

External AI (optional)

Gemini API
Used by recommendation / resume analysis