Resume System – Trial Task Short Notes Project Overview A Resume System that automatically updates and generates professional resumes from verified user activities such as courses, projects, and hackathons. Modules Implemented 1. **Frontend (Next.js + React + TypeScript)** – Resume editor, live preview, and project addition.

2. **Backend (Node.js + Express + TypeScript)** – REST APIs for resume, projects, skills, achievements, and AI summary generation.

3. **Database (SQLite)** – Schema includes Users, Resumes, Projects, Skills, Achievements.

4. **AI/Automation** – Logic that auto-generates a professional summary from structured data, with option for OpenAI integration. Technology Stack • Frontend: Next.js (React, TypeScript)

• Backend: Express (TypeScript)

• Database: SQLite

• AI Logic: Custom summarizer function Deliverables • Working prototype (resume_system_project.zip)

• Complete source code (frontend, backend, DB schema, AI logic)

• Documentation (README.md, docs/APPROACH.md, docs/API.md) How to Run **Backend:** cd backend npm install npm run dev Backend runs on http://localhost:4000 **Frontend:** cd frontend npm install npm run dev Frontend runs on http://localhost:3000 Open browser → create resume → add project → generate summary Evaluation Highlights • Creativity: Interactive resume builder

• Code Quality: Structured with TypeScript

• Integration Ready: REST APIs and modular architecture

• Documentation: Included

• Timely Delivery: 3–4 days