

# Internship Weekly Report – Week 1

## Executive Summary:

During the first week of my internship, I successfully initialized three projects (`newsSum`, `queryl`, and `ResReview`). For ResReview (AI-Powered Resume Screener), I completed significant technical milestones including backend–frontend setup, MongoDB Atlas integration, and authentication APIs with JWT. For newsSum and queryl, I focused on repository setup, installing required frameworks/libraries, and ensuring the development environments were ready.

## Projects & Progress:

### 1. ResReview (AI-Powered Resume Screener):

- **Repository Initialization:**
  - Created monorepo structure with `backend/` (Spring Boot) and `frontend/` (React + Vite).
- **Backend Setup (Spring Boot):**
  - Generated project with Spring Boot 3.5.5 (Java 21) and Maven.
  - Added dependencies: Spring Web, Spring Data MongoDB, DevTools.
  - Created initial `HelloController` and verified `/api/hello` endpoint.
- **Frontend Setup (React + Vite):**
  - Initialized project and confirmed rendering of starter template.
  - Connected frontend to backend via Axios/Fetch and verified `/api/hello` consumption.
- **MongoDB Atlas Integration:**
  - Created cluster, configured credentials, and tested connectivity from backend.
  - Properties managed with `.env` placeholders (sensitive data excluded from repo).
- **Authentication Module:**
  - Implemented User model, UserRepository, UserService, and AuthController.
  - Added password hashing with BCrypt.
  - Configured JWT utility for token generation and validation.
  - Verified `/api/auth/register` and `/api/auth/login` using Insomnia.
- **Frontend Auth UI:**
  - Built Login.jsx and Register.jsx pages using Tailwind CSS.
  - Integrated with backend APIs.
  - Stored JWT tokens in localStorage on login success.

### 2. newsSum (AI-Powered News Summarizer Portal):

- Initialized repo structure with `backend/` (Django) and `frontend/` (React).
- Installed dependencies:
  - Backend: Django, Django REST Framework
  - Frontend: React (Vite)
- Verified Django project creation and React frontend rendering.
- Ensured backend and frontend servers start without errors.

### 3. queryl (AI-Chatbot for Student Queries):

- Initialized repo structure with `backend/` (Node.js + Express) and `frontend/` (React).
- Installed dependencies:
  - Backend: Express
  - Frontend: React (Vite)
- Verified React app runs locally.

## Summary of Accomplishments:

- Initialized three projects (ResReview, newsSum, queryl).
- Set up full monorepo structure with frontend & backend separation.
- Established MongoDB Atlas connectivity in ResReview.
- Implemented user authentication with JWT in ResReview.
- Created styled login/register pages in React with Tailwind CSS.