Internship Project Report

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Role: Web Development Intern
Organization: Elevate Labs
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Introduction

During my internship at Elevate Labs, I worked on building ResuMate, a full-stack resume builder and portfolio generator. The goal of this project was to help users create professional resumes, manage them, and generate shareable online portfolios. I was responsible for both frontend and backend development, integrating authentication, AI-powered features, and deployment.

Abstract

- Create and edit resumes with structured input fields (education, experience, skills, projects, certificates, etc.).
- Use AI suggestions (via Cohere API) to enhance resume content.
- Export resumes as professional PDF templates.
- Manage multiple resumes and publish them as public portfolios.
- Securely sign up, log in, and manage resumes with JWT authentication and MongoDB for storage.
- The platform is designed with a focus on usability, professionalism, and modern UI.

Tools & Technologies Used

- Frontend: React.js, Tailwind CSS, Vite
- Backend: Node.js, Express.js
- Database: MongoDB
- Authentication: JWT, bcrypt.js
- AI Integration: Cohere AI (resume suggestions, portfolio generation)
- PDF Export: jsPDF, @react-pdf/renderer
- Deployment: Vercel (frontend), Render (backend)
- API Testing: Postman
- Other Utilities: dotenv, cors

Steps Involved in Building the Project

1 **Frontend Development:** Designed the UI with React + Tailwind CSS. Implemented Resume Form, Resume Preview, Portfolio View, and Authentication components. Added multiple resume templates with PDF export.

2 **Backend Development:** Built REST APIs using Express.js for authentication, resume CRUD operations, and portfolio sharing. Integrated JWT authentication and connected MongoDB Atlas.

3 **AI Integration:** Connected the app to Cohere's Chat API for resume improvement. Provided real-time suggestions for experience and project sections.

4 **Testing & Debugging:** Used Postman extensively to test APIs. Handled errors with validation and proper status codes.

5 **Deployment:** Deployed frontend on Vercel and backend on Render, ensuring smooth integration.

Conclusion

The internship project gave me the opportunity to work on end-to-end full-stack development, including user authentication, AI integration, database management, and deployment. It improved my understanding of React, Node.js, Express, MongoDB, and API testing, while also helping me gain experience with deployment workflows. ResuMate stands as a complete, professional tool that can be directly used by job seekers to generate and share resumes.

Project Links

• GitHub Repository: https://github.com/Ananya-Mitra-21/resumate
• Deployed Application: https://resumate-frontend-psi.vercel.app