Summer Internship Report

CODTECH IT SOLUTIONS

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CERTIFICATE
OF INTERNSHIP EXPERIENCE

This certificate is proudly presented to

BATHINI VENKATA TEJASRI

successfully completed the Internship Program at
CODTECH IT SOLUTIONS in **"Full Stack Web
Development"** Active participant from **May 10th, 2025 to
June 25th, 2025** with unwavering dedication.

NEELA SANTHOSH KUMAR
HUMAN RESOURCES&
ACADEMIC HEAD

VERIFIED BY
CODTECH IT SOLUTIONS PVT.LTD

ISO 9001 CERTIFIED

AICTE

MSME

Name: Bathini Venkata Tejasri
Internship Duration: May 10, 2025 – June 25, 2025
Organization: CODTECH IT SOLUTIONS PVT. LTD., Hyderabad
Domain: Full Stack Web Development (React.js & Spring Boot)

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1. Introduction

As part of my academic enrichment and practical skill development, I undertook a two-month internship at **CODTECH IT SOLUTIONS PVT. LTD.**, Hyderabad. The internship, from **May 10 to June 25, 2025**, was focused on building full stack web applications using **React** and **Spring Boot**. This internship was instrumental in refining my programming, system design, and team collaboration skills while contributing to a live project.

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2. Internship Goals

- Learn full stack development using modern frameworks.

- Develop a real-time, scalable application using React (frontend) and Spring Boot (backend).

- Collaborate with a development team and understand SDLC phases.

- Apply problem-solving and clean coding practices in real-world scenarios.

Initial Project

Eventful-Artists – Artist Discovery Platform

Type: Frontend Project
Tech Stack: React.js, Next.js, CSS Modules, Framer Motion
Live Demo: https://eventful-artists-git-master-tejasri-44s-projects.vercel.app?_vercel_share=ISpau9Yy2wR3HPqMfdF4xObRqKjjSnNk

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Project Overview

Eventful-Artists is a modern, responsive web application that serves as a discovery platform for event organizers to explore and connect with talented artists. The project simulates a professional **talent booking interface**, showcasing artist portfolios and enabling event planners to navigate through curated artist profiles.

This was my **first major frontend project**, built entirely using **React and Next.js**, where I focused on component-based UI design, animations, and responsive layout structure.

Key Features

- **Artist Portfolio Cards**
  Visually rich artist profiles with role/category tags (e.g., Singer, Dancer, Comedian).

- **Search & Filter UI**
  Search bar and dropdown filters to narrow down artists by name or category.

- **Fully Responsive Design**
  Optimized layouts for mobile, tablet, and desktop viewports.

- **Page Routing & Navigation**
  Utilized Next.js for efficient client-side routing and page transitions.

- **Animations & Aesthetics**
  Integrated **Framer Motion** for smooth entry animations and hover effects.

- **Modular Code Structure**
  Used reusable components and clean file organization for scalability.

Learning Outcome

This project introduced me to **Next.js** concepts such as file-based routing and performance optimizations while strengthening my React fundamentals. It taught me how to build clean and interactive UIs, handle component state, apply CSS modular styling, and deliver a polished user experience.

Internship Project: Medicine Shop Automation (MSA)

Team: DreamScope
Role: Backend Developer

Project Overview

The Medicine Shop Automation (MSA) project is a full-stack application developed to streamline the operations of a retail medical store. It offers a centralized platform for inventory management, customer ordering, vendor handling, billing, and real-time reporting. This system reduces manual errors, improves stock tracking, and enhances business efficiency.

Technologies Used

Frontend: HTML, CSS, Bootstrap, JavaScript

Backend: Java, Spring Boot (transitioned from legacy Servlets)

Database: MySQL (via Spring Data JPA)

Tools: IntelliJ IDEA, VS Code, Postman

Modules & Features

As a backend developer, I contributed to building secure, scalable RESTful APIs for the following core modules:

1. User Management

Role-based user login: Shop Owner, Pharmacist, Customer, Vendor

JWT-based authentication with Spring Security

Access control for protected endpoints

2. Customer Management

APIs for registration, login, and profile updates

Order history retrieval

Cart functionality: add, update, checkout

Return, refund, and cancellation workflows

Feedback and support ticket APIs

3. Inventory Management

APIs to add/update/delete medicine stock with expiry, batch, and vendor mapping

Stock monitoring and automatic low-stock alert triggers

Unique medicine code generation for identification

4. Sales Management

Sales entry and transaction processing

Dynamic billing through backend-generated receipts

APIs to fetch daily/weekly/monthly sales reports

5. Vendor Management

Vendor registration and management

Vendor-wise supply tracking

Expired stock reporting and vendor reconciliation

Vendor payment and invoice tracking

6. Security & Compliance

Full authentication and authorization implementation using Spring Security

Role-level restrictions for all routes

Secure password hashing and sensitive data handling

My Work Contributions (Backend-Focused)

- As part of Team DreamScope, I specifically handled:
- Creating and integrating RESTful APIs for all major modules
- Implementing Spring Boot services, JPA repositories, and DTOs
- Designing relational tables and mapping them with Hibernate (MySQL)
- Writing query methods for custom reports and search functionality
- Ensuring unit testing for API endpoints using Postman
- Supporting integration with frontend through API documentation and testing

OTHER INTERNSHIPS DURING SUMMER

Byte Hearts Internship

ByteHearts Internship Description

During my two-month internship at ByteHearts Pvt. Ltd., I worked as a Frontend Developer in a collaborative startup environment. My primary contribution was to a real-time client project — a Tourism Web Application designed for a new-age travel startup aiming to enhance user experiences through a dynamic and responsive web interface.

Key Highlights:

Role: Frontend Developer

Team: UI/UX & Frontend Team

Project: Tourism Web App (real-time startup project)

Responsibilities:

Developed responsive UI components using React.js, CSS3, and JavaScript.

Integrated REST APIs for dynamic content rendering such as tour listings, booking forms, and user reviews.

Participated in sprint planning, daily stand-ups, and team retrospectives, gaining Agile project experience.

Focused on performance optimization, ensuring smooth user experience across devices.

Contributed to feature modules like destination filtering, interactive maps, and user onboarding flow.

Coordinated with designers and backend developers to ensure seamless API integration and user-centric interfaces.

Learning Outcome:

This internship provided me with valuable experience in working on a real-time product within a fast-paced startup ecosystem. It strengthened my frontend development skills, improved my ability to collaborate in a cross-functional team, and gave me insights into delivering scalable solutions for real-world applications.

Ongoing Project Highlight: InterviewEase_Pro

While working on the internship, I simultaneously advanced my personal full stack project, **InterviewEase Pro** – a modern interview simulation and management platform.

Tech Stack:

- **Frontend:** React.js

- **Backend:** Spring Boot + Python (for AI feedback module)

- **Video Call Module:** WebRTC
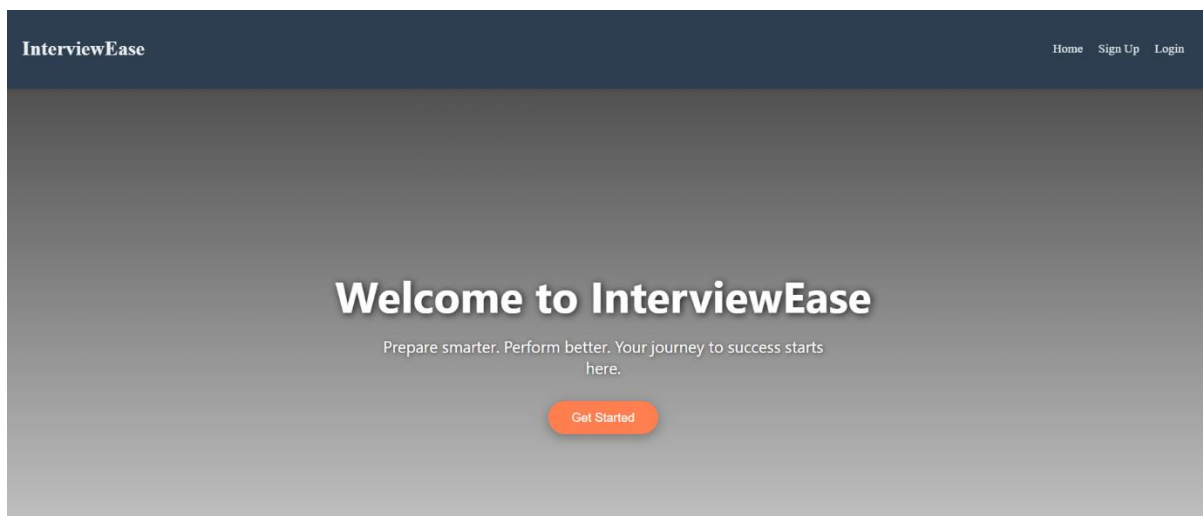
- **Database:** MySQL

Features:

- **Mock Interview Generator:** Paste a job description to get AI-generated questions.

- **Video Call System:** Conduct live interviews and record sessions.

- **AI Feedback:** Get real-time performance analysis based on voice and response.

- **Slot Booking:** Schedule interviews, manage calendar availability.

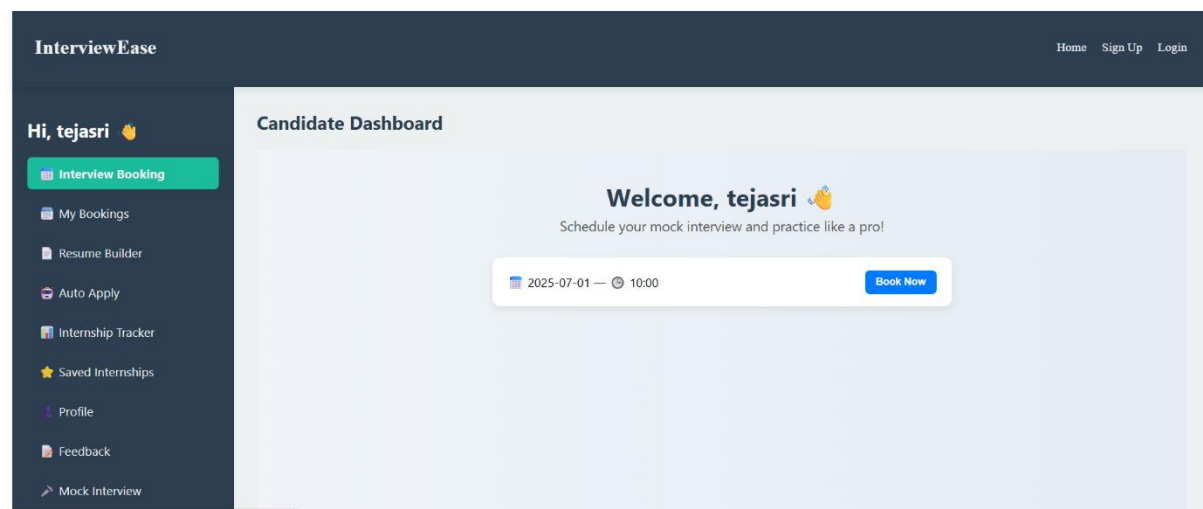- **Admin Dashboard:** Manage users, sessions, and performance logs.

Ongoing Development Goals:

- Enhance the AI feedback module with NLP

- Enable chat + code editor integration during interviews

- Add visual analytics for candidate progress tracking

Home Page:

Candidate Dashboard:

Conclusion

- My internships at **CODTECH IT SOLUTIONS** and **ByteHearts Pvt. Ltd.** have been transformative milestones in my technical journey. At CODTECH, I gained strong foundational and practical knowledge in **full stack development** using **React** and **Spring Boot**, which I applied to build a fully functional real-world project — **Medical Shop Automation**. This project sharpened my backend development, database design, and team collaboration skills.

- At ByteHearts, I expanded my frontend development capabilities by working on a **live tourism startup application**. I collaborated with the UI/UX and API teams, contributing to real-time modules using React.js, while adhering to agile practices and startup workflows. This gave me valuable exposure to building scalable, user-centric applications in a real business environment.

- In parallel, I have been actively developing my own project — **InterviewEase Pro**, a full-stack AI-powered interview simulation platform. This personal initiative showcases my ability to integrate advanced features like AI-driven question generation, video call recording, and real-time feedback into a robust, production-ready system.

- Overall, these experiences have not only enhanced my **technical proficiency and software development lifecycle understanding**, but also prepared me for **industry-level full stack developer roles** with strong problem-solving, collaboration, and innovation skills.