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COUNTRYEDU PRIVATE LIMITED

GSTIN : 06AAJCC6151A1Z3 | CIN : U72900HR2021PTC096283

Email : query@countryedu.com, grievances@countryedu.com

1-Month MERN Full Stack Development Immersion Internship

Designed by: CountryEdu Private Limited

By CountryEdu Private Limited

(IT Managed Services & EdTech Solutions)

Program Objective :

- Understanding full-stack web development using the MERN (MongoDB, Express.js, React.js, Node.js) technology stack
- Developing expertise in frontend development, backend development, database management, and API integration
- Learning modern web application architecture, authentication systems, and deployment methodologies
- Building scalable, responsive, and data-driven web applications using industry-standard technologies
- Understanding software development lifecycle, version control, and professional development workflows
- Preparing students for careers in MERN Full Stack Development, Web Development, and Software Engineering

Program Structure :

- Duration: 4 Weeks (1 Month)
- Mode: Hybrid / Live / Classroom
- Tools Used: MongoDB, Express.js, React.js, Node.js, GitHub, VS Code, Postman, JWT, REST APIs
- Final Outcome: Full Stack Web Application Project + Internship Certificate

Week 1: MERN STACK & WEB DEVELOPMENT FUNDAMENTALS

- Introduction to Full Stack Development
- MERN Stack Architecture Overview
- Frontend vs Backend Development
- React.js Fundamentals
- JavaScript ES6+ Concepts
- Development Environment Setup

~ Outcome: Strong foundation in MERN Stack architecture and modern web development concepts.

Week 2: FRONTEND DEVELOPMENT WITH REACT.JS

- React Components & JSX
- Props & State Management
- React Hooks Fundamentals
- Event Handling & Forms
- Responsive UI Development
- React Router & Navigation

~ Outcome: Ability to build dynamic and responsive user interfaces using React.js.

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Week 3: BACKEND DEVELOPMENT & DATABASE MANAGEMENT

- Node.js Fundamentals
- Express.js Framework
- REST API Development
- Middleware & Routing
- MongoDB Database Management
- CRUD Operations & Database Integration

~ Outcome: Ability to develop backend services, APIs, and manage databases efficiently.

Week 4: FULL STACK INTEGRATION & DEPLOYMENT

- Frontend-Backend Integration
- Authentication & Authorization
- JWT Security Implementation
- API Testing using Postman
- Git & GitHub Version Control
- Deployment & Project Presentation

~ Outcome: Ability to build, secure, test, and deploy complete MERN stack applications using professional workflows.

LIVE PROJECT & CAREER READINESS

Students work on real-world MERN Full Stack Development projects such as:

- E-Commerce Web Application
- Student Management Portal
- Employee Management System
- Customer Relationship Management (CRM) Platform
- Online Learning Management System
- Real Estate Property Management Portal

Project Includes:

- Requirement Analysis & Planning
- React Frontend Development
- Backend API Development
- MongoDB Database Integration
- Authentication & Security Implementation
- Testing, Deployment & Final Presentation

~ Outcome: Hands-on experience in developing and deploying industry-level MERN stack applications demonstrating frontend development, backend development, database integration, security implementation, and deployment capabilities.

From beginner to job-ready — Become a MERN Full Stack Development Professional in 1 Month.