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COUNTRYEDU PRIVATE LIMITED

GSTIN : 06AAJCC6151A1Z3ICIN:U72900HR2021PTC096283

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

1-Month Node.js Development Immersion Internship

Designed by: CountryEdu Private Limited

By CountryEdu Private Limited

(IT Managed Services & EdTech Solutions)

Program Objective :

- Understanding server-side application development using Node.js and modern backend technologies
- Developing expertise in JavaScript, Express.js, API development, and database integration
- Learning asynchronous programming, authentication systems, and backend architecture
- Building scalable and high-performance backend applications using industry-standard practices
- Understanding application security, testing, deployment, and optimization techniques
- Preparing students for careers in Node.js Development, Backend Engineering, API Development, and Full Stack Development

Program Structure :

- Duration: 4Weeks (1 Month)
- Mode: Hybrid / Live / Classroom
- Tools Used: Node.js, Express.js, MongoDB, MySQL, Postman, GitHub, VS Code, JWT
- Final Outcome: Backend API Development Project + Internship Certificate

Week 1: NODE.JS & BACKEND DEVELOPMENT FUNDAMENTALS

- Introduction to Backend Development
- Node.js Runtime Environment
- JavaScript ES6+ Fundamentals
- Modules & NPM Package Management
- Event Loop & Asynchronous Programming
- Development Environment Setup

~ Outcome: Strong foundation in Node.js development and modern JavaScript programming concepts

Week 2: EXPRESS.JS & DATABASE MANAGEMENT

- Introduction to Express.js Framework
- Server Creation & Routing
- Middleware Implementation
- REST API Fundamentals
- MongoDB & MySQL Introduction
- CRUD Operations & Database Integration

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

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Week 3: AUTHENTICATION, SECURITY & API INTEGRATION

- User Registration & Login Systems
- JWT Authentication
- Password Encryption Techniques
- Role-Based Access Control
- Third-Party API Integration
- API Testing Using Postman

~ Outcome: Ability to build secure backend applications with authentication and API integration capabilities.

Week 4: DEPLOYMENT & PROJECT DEVELOPMENT

- Error Handling & Debugging
- Backend Performance Optimization
- Environment Configuration Management
- Git & GitHub Version Control
- Cloud Deployment Fundamentals
- Project Development & Presentation

~ Outcome: Ability to build, optimize, test, and deploy production-ready Node.js applications.

LIVE PROJECT & CAREER READINESS

Students work on real-world Node.js Development projects such as:

- E-Commerce Backend System
- Authentication & User Management API
- Student Management Portal Backend
- Inventory Management System
- CRM Backend Application
- Real-Time Chat Application Backend

Project Includes:

- Requirement Analysis & Planning
- Database Design & Integration
- API Development & Testing
- Authentication & Security Implementation
- Deployment & Performance Optimization
- Final Project Presentation

~ Outcome: Hands-on experience in developing industry-level Node.js applications demonstrating API development, database management, authentication, security implementation, and deployment capabilities.

From beginner to job-ready – Become an Node.js Development Professional in 1 Month.