

TECHNOLOGY INTERNSHIP
TRAINING PROGRAM IN

FULL STACK DEVELOPMENT

3 Months Online Program
Comprehensive Modules on AI,
Gen AI, and Business Analytics



Real-Time Project Experience

WORK ON LIVE PROJECTS TO BUILD A
PRACTICAL PORTFOLIO.



Industry-Aligned Curriculum

STAY UPDATED WITH IN-DEMAND SKILLS
EMPLOYERS NEED.



Placement-Oriented Training

STRUCTURED SUPPORT TO SECURE
INTERNSHIP & JOB OPPORTUNITIES.



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MASTER PATH

YOUR PATHWAY TO INDUSTRY-READY TECH CAREERS

At Master Path, we prepare graduates and working professionals to become industry-ready through practical, project-based internship training and placement support in high-demand technologies.

Our mission is to bridge the gap between education and employment by providing hands-on learning, real-world projects, and career guidance in fields like Data Analytics, Data Science, Full Stack Development, Embedded Systems, and more.

Whether you are a fresher seeking your first job or a professional looking to upskill, Master Path helps you gain the skills, confidence, and practical exposure needed to secure internship opportunities and placements in top companies.



WHAT IS FULL STACK DEVELOPMENT?

Full Stack Development means building both the front-end (client-side) and back-end (server-side) of web applications. As a Full Stack Developer, you'll be able to design, develop, and deploy complete web solutions from scratch.



Front-end Development

This involves creating the user interface (UI) and user experience (UX) of a website or application, utilizing technologies like HTML, CSS, and JavaScript.



Back-end Development

This focuses on the server-side logic, database management, and API integrations, using languages like Python, Java, Node.js, or PHP.

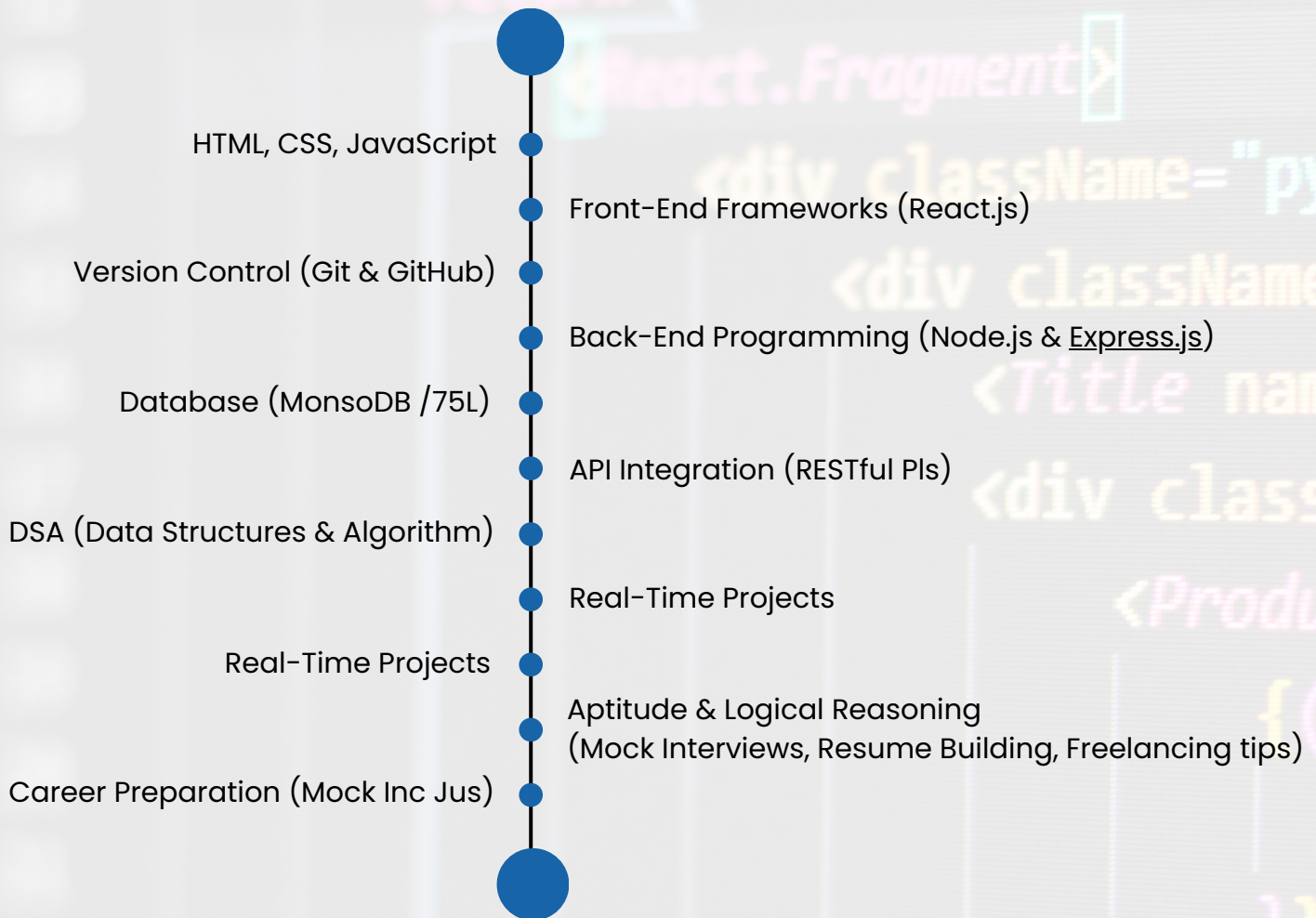


Full Lifecycle Management

Full-stack developers often oversee the entire software development lifecycle, from planning and design to testing, deployment, and maintenance.

Your Career Path:

Full Stack Developerment Module



Career Roles After Completion	Packages
Full Stack Developer	₹7.2 Lakhs to ₹18 Lakhs per year
Back-End Developer	₹5 Lakhs to ₹8 Lakhs per year
Junior Software Engineer	₹4.5 Lakhs to ₹7 Lakhs per year
Front-End Developer	₹5 Lakhs to ₹9 Lakhs per year
Web Application Dev	₹3.4 Lakhs to ₹7.2 Lakhs per year
UI Developer (with coping)	₹4.1 Lakhs to ₹8.7 Lakhs per year



WHY INVEST IN THIS COURSE?



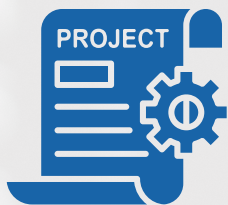
27%

Market growth from 2022 to 2032



1,00,000+

Job vacancies in India as of 2024



85%

Projects listed on hiring portals
require full stack skills



₹7.2 LPA

Full Stack Developer fresher's
average salary

PRODUCT-BASED TECH COMPANIES

Google

Microsoft

amazon

Flipkart
Explore Plus

zomato

paytm

OLA

Uber

SWIGGY

PhonePe

STARTUPS & MID-SIZE TECH FIRMS

Z O H O

Razorpay

freshworks

CRED

Groww

AND MANY MORE...

PROGRAM OVERVIEW

```
ing< ),
ing< String>,
ing< IFormatProvider>,
ing< String>, IFormatProv
following output when run
is formatted with variou
rmatProvider.

is not used; the default
ing: 11876.54
string: 11,876.5
string: 1.187654
string: 1.18765E

object for [nl-NL] is used
ring: 11876.54
string: 11,876.5
string: 1.187654

Info object with digit grou
or = '-' is used for the IP
string: 1_18_76_54
string: 1,187654
to continue . . . -
```



4-6 Months | Online



Personalized Weekend Mentorship Sessions



Hands-On Exposure to 22+ Languages and Tools
(Python, SQL, Tableau and More)



31 Weekly Online Mentorship Sessions



Case Studies with Real-World Datasets:
10 hands-on projects and 60+ case studies



Industry Mentor-guided Capstone Project



Dedicated Program Manager



Academic Learning Support (Industry Mentor, GL Coach,
GL Community, Project Discussion Forums, Peer Groups)



Certificate of Completion from MasterPath



World-renowned Faculty and Seasoned Industry Experts



Dedicated Learning and Career Support



Resume Review and Interview Preparation Sessions



Beginner Projects

1. Personal Portfolio Website

- **Front-End:** HTML, CSS, JavaScript
- **Back-End** (optional): Contact form with Node.js or PHP
- **Features:** About, Projects, Resume Download, Contact

2. To-Do List App

- **Front-End:** React.js or plain JavaScript
- **Back-End:** Node.js + Express
- **Database:** MongoDB
- **Features:** Add/edit/delete tasks, store user tasks

3. Blog Website

- **Front-End:** React / Bootstrap
- **Back-End:** Express.js + Node
- **Database:** MongoDB
- **Features:** Post, edit, comment, register/login

Intermediate Projects

4. E-commerce Website

- **Front-End:** React.js
- **Back-End:** Node.js + Express
- **Database:** MongoDB or MySQL
- **Features:** Product listing, cart, payment gateway (Razorpay/Stripe), user login

5. Job Portal App

- **Front-End:** Angular or Vue
- **Back-End:** Node.js
- **Database:** PostgreSQL
- **Features:** Job listings, company dashboard, user profiles

6. Online Learning Platform

- **Features:** Video content, quiz, progress tracking
- **Tech:** MERN Stack (MongoDB, Express, React, Node)



Advanced Projects

7. Social Media App (Mini Twitter)

- **Tech Stack:** MERN
- **Features:** Post, like, follow, notifications, comments, live chat

8. Real-Time Chat App

- **Front-End:** React.js
- **Back-End:** Node.js + Socket.io
- **Database:** MongoDB
- **Features:** Live messaging, typing indicators, auth

9. Project Management Tool (like Trello)

- **Tech Stack:** React, Node, MongoDB
- **Features:** Boards, tasks, drag-and-drop, team members, role-based access

Overview + Course Highlights

Full-Stack Web Development Curriculum

- Frontend: HTML, CSS, JavaScript, Bootstrap, React.js
- Backend: Node.js, Express, MongoDB, MySQL
- Fundamentals: OOP, DSA, APIs, Redux, Git & Deployment

Programming Foundations

Object-Oriented Programming (OOPS)

- Concepts: Class, Object, Encapsulation, Inheritance, Polymorphism, Abstraction
- Advanced Topics: this, super, Constructors, Interfaces, Method Overriding
- Languages Covered: Java / Python

Data Structures & Algorithms (DSA)

- Core Concepts: Arrays, Linked Lists, Stacks, Queues, Trees, Graphs
- Algorithms: Sorting, Searching, Recursion, Greedy, DP, Backtracking
- Practice Platforms: LeetCode, Codeforces, HackerRank

Frontend Development

HTML5 & CSS3

- HTML: Semantic tags, Forms, Media, Tables, Best Practices
- CSS: Box Model, Flexbox, Grid, Animations, Media Queries

JavaScript

- Core Concepts: Variables, Functions, Loops, DOM, Events
- Advanced: Closures, Hoisting, Promises, Async/Await, Fetch API
- ES6+ Features: Destructuring, Arrow Functions, Modules

UI Frameworks & Tools

Bootstrap 5

- Responsive Grid System, Navbars, Forms, Cards, Modals, Utility Classes

React.js

- JSX, Components, Props & State, useEffect, Routing, Forms
- API Integration, Custom Hooks, useContext, Project Structure

Redux (with Toolkit)

- `createStore`, Actions, Reducers, `useSelector`/`useDispatch`, Async Thunks

Backend + Databases

Node.js + Express

- HTTP Server, Routing, Middleware, REST APIs
- File Handling, Environment Variables, MVC Structure

Databases

- MongoDB (NoSQL): Collections, CRUD, Aggregation, Mongoose
- MySQL (SQL): Tables, Joins, CRUD, Constraints, Stored Procedures

Security & Deployment

- JWT Authentication, Input Validation, CORS, Rate Limiting
- Hosting: Vercel, Render, Heroku | Tools: Postman, GitHub

Real-World Projects + Certification

Projects (Hands-on)

- Banking System, Library Portal, Todo App, Contact Manager
- Student Dashboard, CRUD APIs, Authentication System

Deliverables

- Source Code + GitHub Upload
- Resume Projects + Portfolio Hosting
- Certificate of Completion

Technologies Covered



HTML



HTML



CSS



Bootstrap



NodeJS



Heroku



NPM



MongoDB



React



AWS



DS & Algo



VS Code



MySQL



Redux

BENGALURU

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