Digital Lync

JOB READY PROGRAM

Get Your Offer Letter within 24 weeks

INTERNSHIP
2 Months

100%
Placment Assurance

2000+
Students Placed

#GetJobReady2020

www.digital-lync.com

+918688444666

WHAT IS JOB READY PROGRAM?

A Customized Training program which explores the most relevant technologies and techniques providing robust coverage of the skills you need to get to your goal.Each course is tailored and aimed at the level of the students concerned;we cater for the complete spectrum of personnel. We are focused on helping you unlock your true potential and more.

WHO IS THIS PROGRAM FOR?

Fresh Graduates

Job Ready Program is a complete in-depth program for any final year and pass out students of B.sc/Btech/Mtech/MCA who are looking for assured job placements and be part of best companies around.

HOW IT WORKS

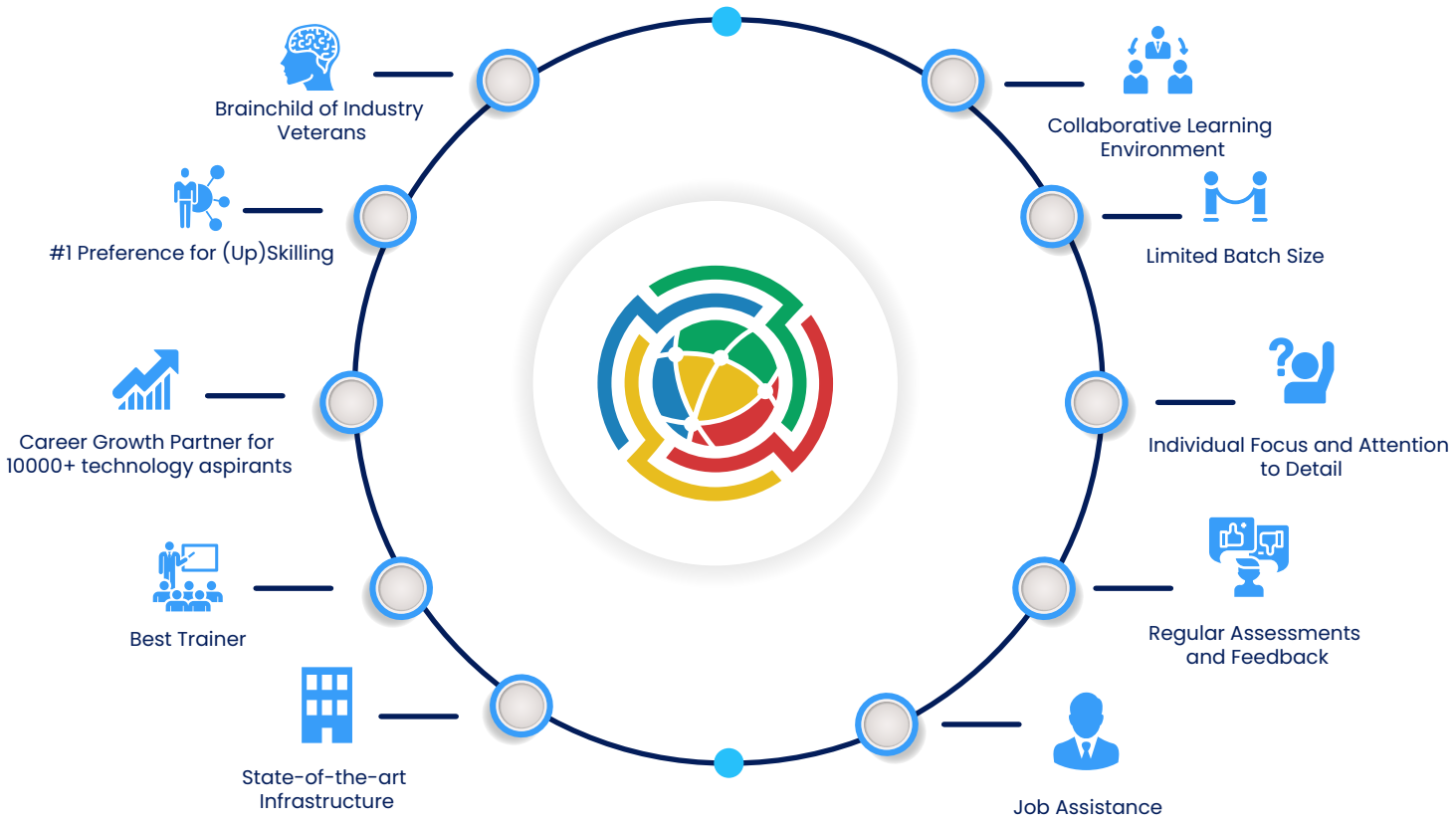
WHY DIGITAL LYNC?

Digital Lync commenced its journey in 2016 as an advanced technology hub and endeavors to identify the quest for learning within individuals to broaden the horizon of knowledge in the colossal technical arena. Digital Lync's mission is to empower the technology aspirants with current trends in digital and technical genre with suitable training for a continued competency. The training focuses not only to get the first job but to retain the job.

2000+
Students Enrolled

4.6 ★★★★½ (1247)
Ratings

100+
Batches



150+
Industry Partners

CricClubs
publicvibe
FLIPSIDE
THRYMR SOFTWARE
TECHNOFLAIR
ZettaMine TECHNOLOGIES Beyond Intelligence
lazlsa
IBOT
SHOOT ORDER
PerkinElmer
PROCESSWEAVER
Foyr

DigitalLync Students are **Successfully Placed**




CAREER GROWTH PARTNER FOR 10000+ ASPIRANTS

BACK END ENGINEER PROGRAM

About the Program

A Customized Training program which explores the most relevant technologies and techniques providing robust coverage of the skills you need to get to your dream job. This program includes cutting-edge technologies used by fortune 500 companies. This program teaches the critical skills required to design, develop, test and deploy dynamically scalable and reliable applications on the cloud. This course will give you the knowledge, skills and experience you will need to work on real time applications.

Objectives of the Program

- Get placed within 24 weeks.
- To develop real-time web applications such as E-Commerce, OTT Platforms.
- Get Placed in one of the growing companies within 24 Weeks.
- In-depth real time experience on Data Structures and Algorithms, Software Development Essentials, HTML5,CSS3, JS, TS, Angular.
- Ability to understand the real time issues and provide best technology solutions.

Program Features

- Get your offer letter within 24 Weeks of the program.
- Global Instructors with Industry Experience.
- Realtime case studies for every module.
- 24 * 7 Technical Mentor Assistance.
- 2 Month live Internship with fastest growing companies.
- Instructor led classroom training for 300 hours with online guided practice for 140 hours.
- Design, Develop, Test and Deploy applications on cloud.

PROGRAM CURRICULUM

Week Days

Mon-Thu

Week 1
Operating System

Week 1-6
Java Programing Language

Week 6-11
Back End Programming

Case Studies
ECommerce and OTT Platform

Paid Internship
2 Months

You will Be working as an Intern in one of our Partner Companies for 2 Months with stipend of ₹5000/Per Month.

Get Your Dream Job

Our Placement Manager will help you make your resume. Prepare you for interview to get you dream job.

Week Ends

Sat-Sun

Week 1-7
Data Structures & Algorithms

Week 7
Software Engineering Essentials

Internship & Placement Partners

CricClubs publicvibe FLIPSIDE IBOT

Operating System (Week -1)

Objectives:

- To understand how different operating systems (Windows and Linux) work.
- Get Familiarity with the core concepts of Operating System.
- To understand memory management, security and efficiency.
- Develop OS Friendly applications
- Identifying the symptoms to potential problems you may encounter and learn how to fix them.

Topics:

1. Getting Started with Windows.
2. Understanding core components of an OS.
3. How OS work.
4. Memory Management.
5. Memory Optimization.
6. Processors,Registers and RAM.
7. File and File Systems
8. Instructions and Programs.
9. Process and Process Management
10. Threads and Concurrency
11. Interprocess Communication.
12. I/O Management
13. Introduction to Linux OS
14. File & Directory Management
15. Vi Text Editor
16. Utility Commands

17. Archives
18. User Group Management
19. File Permissions
20. Package & Service Management
21. Misc Commands

Outcome:

- Deep Understanding of different concepts of Operating Systems to develop OS Friendly Web Applications.

Java Programming (Week 1- 6)

Objectives:

- Understand the different core concepts of Java Programming
- Write Core java code confidently. You can develop desktop applications.
- Implement Data Structures and Algorithms efficiently using Java.
- Mastering Object Oriented Programming using Java.
- Obtain a solid understanding of what debugging and refactoring is and how to do it.
- Understand different types of Design Patterns for robust language.

Topics:

1. Getting Started with Java
2. History, Features and Importance of Java.
3. Environment Setup
4. Identifiers and keywords
5. Compilation, Execution of Java Apps.
6. Variables
7. Operators
8. Control Statements

9. Methods
10. Blocks and Constructor
11. Arrays
12. Strings, Stringbuffer and StringBuilder
13. Object Oriented Programming
14. Inheritance
15. Polymorphism
16. Abstraction
17. Encapsulation
18. Abstraction
19. Packages
20. Regular Expressions
21. Wrapper Classes
22. Inner Classes
23. Type Casting
24. Collection Framework
25. Generics
26. Multi Threading
27. Exception Handling
28. IO Streams
29. Java Virtual Machine
30. Garbage Collection
31. Networking
32. Java 7 Features
33. Java 8 Features
34. Java 9 Features
35. Java 10 Features
36. Design Patterns

Outcome:

- Master of Java Programming Language.
- Use different Design Patterns efficiently based on the different requirements.
- Have the skills and understanding of Core Java to confidently apply for Java programming jobs.

Data Structures And Algorithms (Weekend 1 to 7)

Objectives:

- Learn everything you need to ace difficult coding interviews
- Master dozens of popular algorithms, including 6 sorting algorithms!
- Implement 10+ data structures from scratch
- Improve your problem solving skills and become a stronger developer

Topics:

1. Introduction to Data Structure & Algorithms
2. Linear and Non Linear DS
3. Recursion
4. Algorithm Run Time Analysis
5. Array
6. Linked List
7. Stack
8. Queue
9. Graph
10. Trees
11. Binary Tree
12. Binary Search Tree (BST)

13. AVL Tree
14. Binary Heap
15. Trie
16. Hashing
17. Sorting and Searching
18. Greedy Algorithm
19. Divide & Conquer
20.Dynamic Programming

Outcome:

- Gain Confidence for Coding Interviews.
- Learn The Most Practical and Popular Data Structures & Algorithms in-depth rather than a rushed course on Computer Science
- Get practice translating sudo code & implementing algorithms with Assignments and Solutions
- Get an intuitive understanding of how many of the popular algorithms and data structures behave

Software Engineering Essentials. (Weekend -7)

Objectives:

- To understand software process models such as waterfall and evolutionary models.
- To understand software requirements and SRS documents.
- To Implement different software architectural styles.
- Deep dive into software testing approaches such as unit testing and integration testing.
- Implementing Quality control and ensuring good quality software.

Topics:

1. Software Development Life Cycle
2. Software Development Processes, Models and Methodologies
3. Waterfall , RAD, Iterative, Spiral , V-Shaped SDLC Models
4. Software Design- Unified Modelling Language
5. Agile Software Development
6. How to build a quality software
7. Importance of software testing
8. Software Requirements and BRD Documents

Outcome:

- Attain best software practices and apply in real-time applications.
- Ability to choose application development models based on the application requirement.
- Ability to identify the minimum requirements for the development of application.
- Ability to develop, maintain, efficient, reliable and cost effective software solutions.
- Ability to critically think and evaluate assumptions and arguments.

Backend Technologies (Week 6- 11)
Javascript

Objectives:

- A true understanding of how JavaScript works behind the scenes.
- JavaScript and programming fundamentals: variables, boolean logic, if/else, loops, functions, arrays, etc.
- Complex features like the 'this' keyword, function constructors, prototypal inheritance, first-class functions, closures
- Organize and structure your code using JavaScript patterns like modules.

Topics:

1. Introduction to Javascript

    Scripting Languages and their usage

    Getting Started with JavaScript.

    History of JavaScript

    Variables

    Data types

    Real time examples

2. Operators and control statements.

    Types of Operators and their usage.

    If statement

    If else statement

If else if statement

    Real time examples

    while loop

    do-while loop

    for loop

    keywords used in control statements like return,break.

    Real time examples

3. Working with Arrays

    Creating an Array.

    Accessing,Looping Over,removing elements.

    Array methods in detail.

    Real time examples

4.Working with Numbers and Dates

    Numbers and its methods.

    Date and its methods.

    Real time examples

5.Working with Strings

Strings and its methods.

Real time example

6.Working with Objects

Objects and properties.

Creating new objects.

Creating objects using create function.

this keyword.

Real time examples

7.Working with Scopes and Events

Types of Scopes in detail.

Different types of events with real time examples

Working with Validations

Basic Validations

Advanced Validations

Real time examples

8.Working with Error Handling and Debugging

Intro to Error Handling

try,catch,finally, throw, Error Object.

Different types of Errors

Importance of Debugging and its usage.

Understanding Garbage Collection and Best coding practices

9.Working with DOM

Intro to DOM

Methods,Documents, Elements

Events

Event Listener

Working with DOM

Navigation

Nodes

Collections

Node Lists

10. Working with ECMAScript - v6

Intro to ES6

Arrow Functions

Default parameter values

Rest parameter

Spread Operator

String Interpolation

Custom Interpolation

Modules(Importing and Exporting)

Intro to Classes

Working with Classes and Generators

Class Inheritance

Static members

Setters and Getters

Generators

Working with Promises and Internationalization/Localization

Outcome:

- Transform from a total beginner to an advanced JavaScript developer
- Understand the weird parts of javascript
- Best coding solutions using javascript design patterns

NodeJS

Objectives:

- Build, test, and launch Node apps
- Deploy your Node apps to production
- Build a Web Server in Node and understand how it really works
- Understand the Javascript and technical concepts behind NodeJS
- Be the coder that explains NodeJS to everyone else because you understand it better than anyone else.

1.Introduction to NodeJS

2.History of NodeJS

3.Features of NodeJS

4.Architecture of NodeJS

5.Environment Setup

6. Running First Application

7.REPL Terminal

8.NPM

9.Callbacks

10.Event-driven programming

11.Working with FileSystem

12.Understanding Global Objects

13.Streams

14.Buffers

15.Intro to Modules

- OS Module
- Path Module
- Crypto Module
- Debugger
- Timer options

21.Understanding HTTP Module

22.Creating a server

23.Handling requests.

24.URL Module

25.Net Module

Outcome:

- Build modern, fast and scalable server-side web applications with NodeJS, databases like SQL or MongoDB and more
- Apply the best practices for building fast, scalable and secure apps
- Deploy your Node apps to production

ExpressJS

Objectives:

- Build, test, and launch ExpressJS apps
- Deploy your ExpressJS apps to production
- Utilize Express and Node to build REST APIs
- Manage dependencies and automate common tasks effectively with Node.js and NPM

1. Introduction to Server Side Framework

Getting started with Express

Features of Express

Installation of express

First Application using Express JS

Understanding Express JS Request

Request object

Request object properties

Request object methods

Real time example

Understanding Express JS Response

- Response object
- Response object properties
- Response object methods
- Real time example

2. Understanding Get and Post operations

- Intro to Get Request
- Developing code to handle Get Request
- Intro to Post Request
- Developing code to handle Post Request

3. Routing in Express

- Intro to Routing
- Route methods
- Route Paths
- Route Params
- Route Handlers
- Response methods
- app.route
- express.Router

4. Working with Middleware

- Getting started with middleware
- Writing middleware
- Configuring middleware
- Using middleware
- Application level middleware
- Router-Level Middleware
- Error-handling middleware
- Built-in Middleware
- Third-party Middleware

5. Template Engine

Introduction to Template Engines

Different Template Engine

Intro to Pug

Using pug with express

Working with EJS

Working with handlebars

6. Advanced Express JS

Error Handling

File Uploading Real Time Modules

Nodemailer

Multer

Outcome:

- Create RESTful services compatible with client-side MVC libraries such as Angular, Backbone, and Ember
- Include authentication, test-driven-development, and powerful time-saving tools to get the app ready for deploying
- Deploying Express Apps on cloud.

MongoDB

Getting started with middleware

Writing middleware

Configuring middleware

Using middleware

Application level middleware

Router-Level Middleware

Error-handling middleware

Built-in Middleware

Third-party Middleware

Objectives:

- Use MongoDB to its full potential in future projects
- Write efficient and well-performing queries to fetch data in the format you need it
- Use all features MongoDB offers you to work with data efficiently

1. Introduction to MongoDB Database

Getting started with MongoDB

Features of MongoDB

Environment Setup

2. Basics of MongoDB

Creating First Database

Creating Document and Saving it to Collection

Dropping a Database

Creating a Collection

Using db.createCollection(name,options)

Dropping a Collection

3. CRUD Operations

Creating/Inserting a document in collection using javascript file

Inserting Array of Documents

Reading a Document

Querying

Reading a Document with $lt, $gt operator

Updating Documents

Deleting documents

4. Indexes and ObjectIds

- Introduction to Indexes
- Understanding the Impact of Indexes
- Creating Index
- Finding Indexes
- Dropping Index
- Understanding ObjectIds
- Creating ObjectIds
- Advantages of ObjectIds created by MongoDB
- Disadvantages of ObjectIds created by MongoDB

5. Aggregation and Data Modelling in MongoDB

- Using aggregate() method
- Using distinct() and count()
- Sorting documents
- Introduction to Data Modelling in MongoDB
- Data Modeling using References
- Data Modeling using Embedded documents

6. Relationships in MongoDB

- One-To-One Relationship
- One-To-Many Relationship
- Many-To-Many Relationship

7. MongoDB with Nodejs

Introduction

Using MongoClient

Using Mongoose

Creating database using MongoClient and Mongoose

8. CRUD operations on MongoDB with Nodejs

Insert

Update

Delete

Retrieve

Outcome:

- Understand how MongoDB stores data
- Gain mastery of the most popular MongoDB interface
- Write efficient queries for reading data
- Learn the purpose of each of Mongoose's functions
- Design effective NoSQL schema with both data nesting and lookups

Our Team

Manikanta Kona

CEO

Meet our CEO,Manikanta Kona who is a visionary leader whose mission is to provide world class education

Sai Kishore

CTO

Meet our CTO, Sai Kishore who is recognized for visionary role in bringing the benefits of Information Technology,skilling and employability.

Ganesh

Advisor

Ganesh is our advisor who is central to leading the team and assisting them to achieve its stated goals as part of the current initiative and overseeing its transition .

Sai Kumar

Full Stack Director

Sai Kumar is our Director of Full Stack Engineering and technical mentor, who is an expert in his field and will empower you to achieve your best.

Digital Lync

LOCATIONS

INDIA

Gachibowli

2nd Floor, Plot No: 6-11, survey No., 40
Khajaguda, Naga Hills Rd, Madhura Nagar
Colony, Gachibowli Hyderabad, Telangana
500008

USA

#23664, Richland Grove Dr, Ashburn, VA
20148 Phone: +1-262-997-9000

Malaysia

11, Pusat Dagang Seksyen 16 Seksyen 16,
46350 Petaling Jaya Selangor, Malaysia

www.digital-lync.com
hello@digital-lync.com
+91 86884 44666