CODING BLOCKS

Code Your Way To Success

Why Choose Career Bootcamp for Working Professionals?

Elevate your career trajectory with Career Bootcamp, the premier up-skilling program designed exclusively for working professionals in the IT sector. Whether you're aiming to secure better placements, enhance your proficiency in Data Structures and Algorithms (DSA), delve into Web Development, master System Design, or gain essential tech knowledge, our comprehensive curriculum has you covered.

What sets us apart?

We know what the industry needs and what you need to learn to get into the industry. We'll be teaching you the skills that are in demand, and with the help of our mentors, you'll be able to crack the interviews and get placed in the best companies. Moreover, our top mentors have 8+ years of experience in teaching and guiding students, and they would be the ones guiding you and helping you crack the interviews.

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OUR RESULT ORIENTED APPROACH

225K+
Students Taught

76K+
Students Placed

27K+
Placements in Top Product Based Companies

Average Hike of
230%

Our Mentors

Archit

Kartik Mathur
Google Code-in

Puru Kathuria
G MathWorks

Monu Kumar
a

Shresth sahai
tact.ai AIRBUS

Programme Details

₹60,000

- Industry Standards Curated Syllabus

- Interactive Live Lectures

- Industry Mentors

- LIVE Doubt Support

- Average Package **16 LPA**

- Course Completion Certificate

- Dedicated and Assured Job Assistance

- Flexible EMI Structure for 3,6,9 & 12 Months

Curriculum Overview

Data Structures and Algorithms

Recursion & Backtracking and Complexities

Data Structures and Intro to Oops

Advanced Data Structures

Dynamic Programming(DP) and Greedy/String Algorithms

Operating Systems and Networking

Database SQL

Low-Level Design (LLD)

High-Level Design (HLD)

HLD-Case Studies

Java

Core Java Fundamentals

Advanced Java Concepts

Java Advanced Features and Integration

Additional Topics

Spring Boot

Master AI Tools Program

Detailed Curriculum

Data Structures and Algorithms
Arrays
Two Pointers
Binary Search
Divide and Conquer
Matrix
Sorting
Bit manipulation
Sliding Window
Prefix and Suffix Sum
Rotation and Reversal
Kadane's Algorithm
Prime Sieve
Manacher's Algorithm
Quick, Merge, Insertion, Selection, Bubble, Counting sort
KMP, Z's, Rabin Karp
Moore's Voting Algorithm

Linked List
Sorting Algorithms
Finding Intersection
Merging Multiple Linked Lists
Reverse Algorithms
K-Reverse
Cycle Detection Algorithm(Floyd's Cycle Detection)

Detailed Curriculum

Stack and Queue

Min and Max Stack in O(1) space

Next greater/smaller element

Largest Area in Histogram

Celebrity Problem

Deque

Trees

In order, Pre order, Post order and Level Order (Recursive ways) traversals.

Morris traversals(In, Pre and Post order iterative ways)

Vertical and Zigzag

Diameter - O(N)

Balanced Tree - O(N)

Height

Deletion in Trees

Conversion Trees to Linked List

Print views(Top, Down, Left, Right, Zig-Zag)

Lowest Common Ancestor

Path Sum Iterations

Detailed Curriculum

Priority Queue and Maps

Heapify working

Height of complete binary tree

"Most Important Interview Questions

Meeting Rooms

Merge K Linked Lists/Arrays

Finding Min and Max Elements

Median of Infinite Running Stream Numbers

Find K largest/smallest elements/pairs"

Collision handling schemes maps

Ordered v/s Unordered Map

Graphs and Tries

BFS and DFS

Traversals: BFT and DFT

Topological Sorting

Bellman Ford

Tries and its questions like Max Xor Pair etc.

Detailed Curriculum

Recursion
Basic Questions
Recursion on Arrays
Recursion on Strings
Recursion Grid Based
Recursion on Subsets
Backtracking
"Classic Problems like :
Chessboard problems: N-Queen/ N-Knight,
Rat in Maze,
Sudoku Solver,
Permutations,
Phone Keypad."

Detailed Curriculum

Dynamic Programming
Basics of DP like Top down, Bottom Up, Relation between Recursion and DP.
1-D and 2-D DP
Important concepts like:
Coin Change
Knapsack
Inclusion and Exclusion
LIS
LCS
Rod Cutting
Edit Distance
Staircase Problem
Chessboard Problems
House Robber

Detailed Curriculum

Operating Systems and Networking
Operating System Fundamentals and Semaphores
Process Scheduling, Deadlocks, Process Syncronization
Memory management
File system management
Threading
OSI Model, HTTP/1.1&2, Routing Protocols
Understanding How the Internet Works (TCP, UDP, HTTP, Layered Architecture)
Websocket communication

Detailed Curriculum

Database SQL
Relational Model
CRUD Operations
Joins
Aggregation Functions
Subqueries
Transactions Management
Indexing

Low-Level Design (LLD)
SOLID Principles
Design Patterns
UML Diagrams
Schema Design
Entity-Relationship (ER) Diagrams
Machine Coding Exercises (Ex: Parking Lot System Design, Splitwise, Elevator Design, Booking App etc.)

Detailed Curriculum

High-Level Design (HLD)
Consistent Hashing
Caching Strategies
CAP Theorem
ACID and BASE Properties
Domain Name System (DNS)
Load Balancers
Content Delivery Networks (CDN)
Distributed Systems and Databases
SQL and NoSQL Databases
Mongo , Dynamo , Cassandra DB , Elastic concepts
Scalability Concepts
Technologies such as Zookeeper, Kafka, Redis, AWS S3
Microservices Architecture vs. Monolithic Architecture
Rate Limiting/ Throttling Techniques

Detailed Curriculum

Java
Core Java Fundamentals
OOPS Concept
JVM, JRE, JDK, and Memory Management
Exception Handling in Java
Advanced Java Concepts
Multi-Threading
Java I/O and Reflection
Collection Framework and Concurrent Package
Java Advanced Features and Integration
Generics in Java and Java 8 Features
Java 9 and Upcoming Features
JDBC and Internationalization
Additional Topics
Hibernate
Project Development

Detailed Curriculum

Spring Boot
Spring and springBoot basic
Spring Setup and configurations
Spring Core concepts
Architecture
IOC conrtainer and DI
Annotations
Spring basic project setup and run
Spring Boot – Sending Email via SMTP
Spring Boot – Custom Exception Handling
Spring Boot – Logging
Spring Boot – Auto-configuration
Spring Boot – Project Deployment Using Tomcat
Spring Boot – Packaging
Spring Boot – Caching
Spring Boot – Customize the Jackson ObjectMapper
How to Dockerize a Spring boot application with Maven
Creating a Spring Boot App using Dockerfile
How to Implement One-to-Many Mapping in Spring Boot?
How to Call or Consume External API in Spring Boot?
How to Create Todo List API using Spring Boot and MySQL?
How to Make a Project Using Spring Boot, MySQL, Spring Data JPA, and Maven?

Detailed Curriculum

Spring Boot

Spring Boot – Introduction to RESTful Web Services

Spring Boot – REST Example

How to create a REST API using Java Spring Boot

Spring Boot Kafka Producer Example

Spring Boot Kafka Consumer Example

Spring Boot – AOP(Aspect Oriented Programming)

Unit Testing in Spring Boot Project using Mockito and Junit

Projects

Online Ticket Booking System

Build An E-Commerce Website

Design True caller

Design Snake and Ladder Game

Design Bill Sharing/Expense Sharing like Splitwise

Design In-memory data streaming service

Implement a logger

Design Cache system

Design an online hotel booking system

Design a Vending Machine

e-Commerce Review System

Detailed Curriculum

React JS
Master AI Tools Program
Prompt Engineering [Effective prompt writing]
10x your presentation using AI
10x your LinkedIn- LinkedIn Hacks
Multiple AI tools usage for Bypass Paywalls etc.
Github Copilot and other AI tools for coding
10x your Excel
Job Hunting with AI tools

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CONTACT US

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By-pass National
Highway, HP

🌐 WEBSITE

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