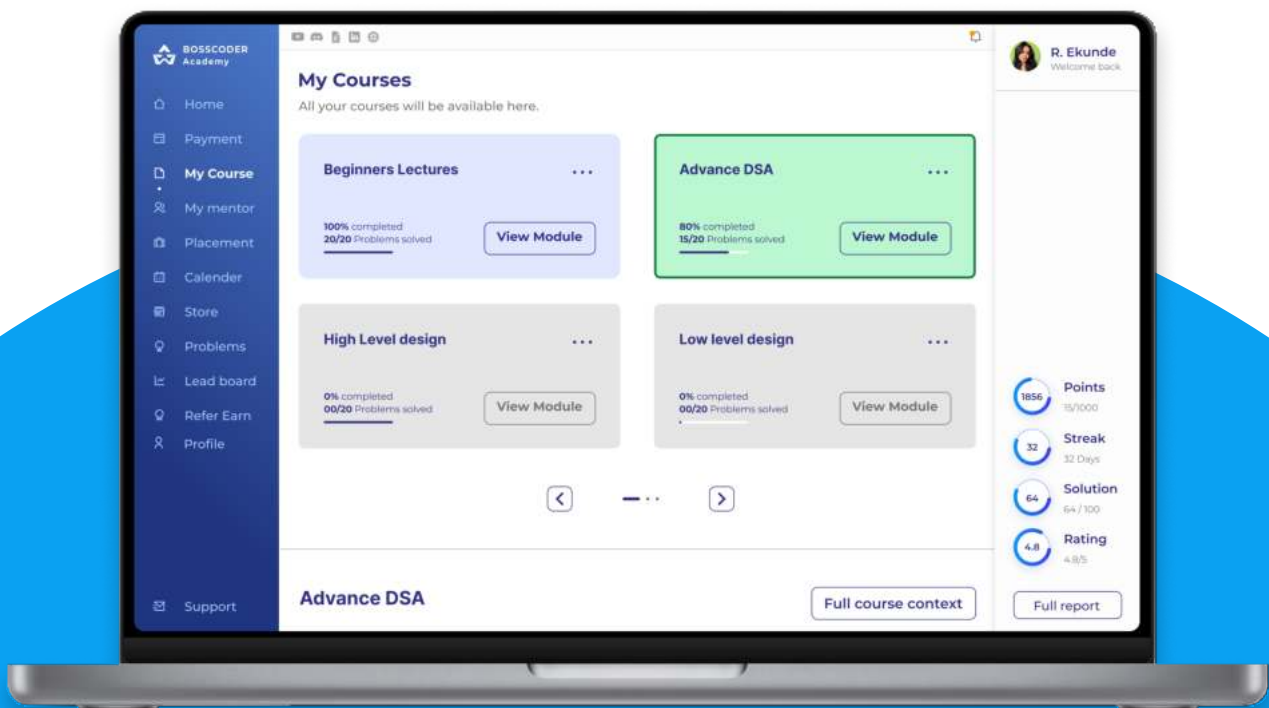


# CURRICULUM

## BROCHURE

Upskill & Ace in your tech career



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# Context

Over the past few years, there has been remarkable growth in technological innovations. Even in sectors where tech presence is least expected, such as agriculture, construction, and healthcare, technological advancement is accelerating growth and shaping the future.

With these rapid advancements, there has been a growing demand for skilled Software Engineers who can Design, Develop and Implement softwares at scale.

In the year 2022, LinkedIn's Jobs on the Rise report found that software engineer was among the top 5 jobs that saw the most growth in hiring in the past year.

There has been an increase in salaries being offered to Software engineers with an average salary of Rs. 18 Lakhs per annum. In coming years, average salary of a software engineer is expected to rise 64% to Rs. 28 Lakhs per annum.

This is the reason that many software engineers are upskilling and becoming better by acquiring the right skills, thereby getting set for immense growth in the tech sector.

Some benefits of upskilling and becoming a top tech engineer include:

1. High compensation
2. Flexibility
3. Challenging and meaningful work

However, software engineers face many difficulties while upskilling -

1. Lack of consistency resulting in lack of results.
2. Unstructured resources which leads to shallow learning.
3. Lack of right guidance leads to inefficient preparation.

We understand our learners challenges & to overcome those, Bosscoder Academy has made it's mission to help them upskill and ace in their tech career.

So far, we are proud to have helped 750+ talented learners get top tech roles in top tech companies.

And what better way to say this than statistics of our results -

1. Salary hike for our learners is 120.34%
2. Our learners are placed with an average CTC of 24.40 LPA
3. Return on Investment (ROI) is 6.25x.

However, What makes these achievements possible for us?

We do this through our structured curriculum covering all the right skills required to get into top product companies.

This includes problem-solving in DS & Algo, System Design, CS Fundamentals, Full stack specialization, 360 deg profile optimization & placement support.

Designed after analyzing what it takes to be a great software engineer, our curriculum is regularly iterated upon by industry experts - because an informed engineer is a great engineer.

The pace of learning is also taken care of, with 2 Batches (Beginner and Advance) so that your main focus is the destination i.e. upskilling and making an awesome career switch.

Beginner batch will spend an extra 1 month - to build strong foundations and gain programming construct knowledge. Don't worry, this extra learning will be at no extra cost.

Our ultimate aim with this course is to make you interview ready and job ready by providing thorough hands on learning experience and correct guidance.

Read on for more details.

# Right Mindset required to Upskill the Right Way

- ✔ Attend classes, complete assignments, collaborate with classmates and attend mentor sessions with a strong sense of commitment.
- ✔ Embrace the opportunity to learn new concepts and approach the curriculum with an open mind, even if you feel familiar with some of the material.
- ✔ Foster a positive attitude and establish connections with your peers by actively participating and offering assistance.
- ✔ Cultivate self-confidence, which will improve your concentration and accelerate your learning.

# What will you gain from this program?

- ✔ By the end of this program you will gain:
  - Solid command of Problem-Solving skills in DS and Algorithm.
  - Thorough knowledge of CS fundamentals.
  - Specialization in full-stack
  - Proficiency in System Design (HLD and LLD) via projects to either move to complex development projects within your firm or switch to product based company (and crack those interviews)
- ✔ No more fear - You will become ready to face Technical interviews.
- ✔ Hyper-personalization:

Depending on student-specific learning pace, we provide pre-course support and try to schedule extra classes so that all students are learning at a pace comfortable to them
- ✔ Healthy competition amongst peers via assignments and weekly leaderboards.
- ✔ Multiple 1:1 system design & problem solving discussions with industry experts
- ✔ Hands-on learning

via projects like creating an Amazon-like app, Instagram-like app etc. This will make you implement the concepts learned throughout the course.

# Curriculum Deep-dive

For every learner, there are 2 learning paths



## Beginner Batch

For complete beginners to the coding world, this learning path starts from learning how to code. There is no pre-requisite to enroll in this batch.

— 34 Weeks —

Starts from Phase 0



## Advanced Batch

Made up of seasoned learners, who are familiar with Pre-Coursework.

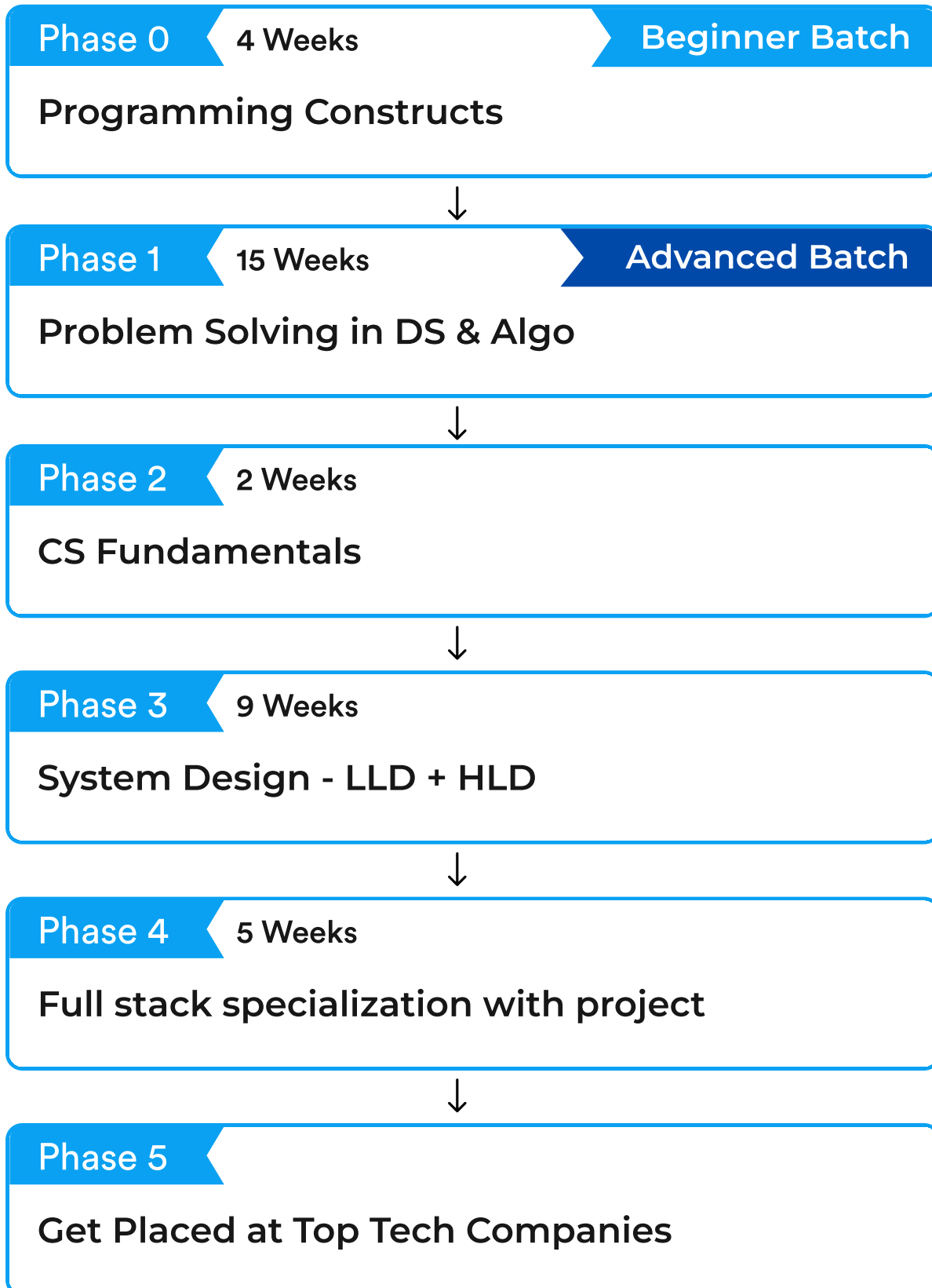
— 30 Weeks —

Starts from Phase 1

Your learning path depends on your proficiency,  
it's that simple.

An initial 30 mins test determines which learning  
path the student would enter.

# Curriculum Deep-dive



Let's Explore all the Phases in Detail, One by one.



## PHASE - 0

# Programming Constructs



**Duration: 4 Weeks**

For Beginner, it is first important to build command over programming constructs.

Within this module, our goal is to help you be confident with coding fundamentals.

Basics of Programming, Condition Statement	1 Week
Loops, Pattern Problems, Functions	1 Week
1D Array, Number System & Maths	1 Week
Intro to Data Structure, Time Complexity - basic strings	1 Week



## Outcome

After this module, you will be confident in:

- Coding in 1 programming language
- Fundamental understanding of Data Structure & Time Complexity



## USPs of our Delivery

- All topics taught in live classes with instant doubt support to accelerate learning.
- Assignment (post lecture) & their evaluation
- Hyper-Personalized: Special focus on individual with a constant touch from student success manager & mentor.

## PHASE - 1

# Problem Solving in DS & Algo



**Duration: 15 Weeks**

Problem solving in DS and Algo is one of the most important topic to master for a software engineer. That is why, we spend the first 15 weeks of our program ensuring you build a solid command over problem solving skill.

Time Complexity, Arrays, Strings, Maths, Bit Manipulation, Binary Search, 2 Pointer	3 Weeks
Recursion, Hashing, Sorting	3 Weeks
Stacks, Queues, Linked Lists, Trees, Tries, Segment Tree, Heap	4 Weeks
Geedy, Dynamic Programming, Graphs, Advance Data Structures	5 Weeks



## Outcome

After this 15 weeks, you will:

- Feel confident in your problem solving skills
- Develop pattern recognition skills required to crack hard level DSA problems
- Be interview ready with DSA to crack top tech companies.

## ★ USPs of our Delivery

- Hyper-personalization: Depending on student specific learning pace, multiple revision classes are organized.
- Assignment (post lecture) & their immediate evaluation help to compare your performance against peers.
- Focus is not just on solving & remembering questions but to help students build intuition behind concepts, enabling them to identify patterns easily.
- Special focus on difficult topics like Dynamic programming and Graphs.
- Weekly contest & regular Mock interviews to understand your conceptual understanding and give feedback.

## PHASE - 2

# CS Fundamentals



**Duration: 2 Weeks**

Our code run on hardware devices. So, in order to design & implement our high level solutions on machines that understand low level in an optimal & reliable way, we should have understanding around core CS topics.

Databases	1 Week
Computer Networks	1 Week
Operating System	



## Outcome

Gain fundamental understanding of crucial CS topics like Concurrency, threading, SQL vs No SQL, Normalization, Networks.



## USPs of our Delivery

- Live lectures from industry experts sharing the practical application of CS fundamental topic in software development lifecycle.
- Assignment (post lectures) & their evaluation

## PHASE - 3

# System Design - LLD + HLD



Duration: 9 Weeks

As a software developer, we are responsible for:

1. Writing a clean, maintainable, modular code that is easy to understand & extend.
2. Designing services capable of scaling to millions of active customers with high reliability & fast access.

Within this module, we learn these 2 skillset with hands on experience & multiple case studies

Low level Design - OOPS, Design pattern, UML Diagram, schema design, Design problem, Machine coding	3 Weeks
High Level Design - Architecture Design, Distributed system, load balancing, consistent hashing, caching, Transactions, SQL vs NOSQL, Distributed queues, Mircoservices, Real Life case studies	6 Weeks



## Outcome

After this 9 weeks, you will be able to design system capable of scaling to billions of users and participate in design discussion confidently.

## ★ USPs of our Delivery

- Multiple 1:1 discussion with expert (e.g. senior engineers at top tech companies)
- Hands on learning experience
- Solve multiple real life case studies in live classes & understand the tradeoffs of designing a system.
- Understand the internals of complex systems like distributed Queues, Distributed file system, Microservices, etc.

## PHASE - 4

# Full stack specialization with project



**Duration: 5 Weeks**

As a software engineer, we build products which can scale. In this module, you will gain hands on experience of building a project from scratch & implement the LLD + HLD perspective in real projects.

Building a server, Intro to MVC	1 Week
Web architecture, HTML, CSS, JavaScript, Node JS, Backend Architecture, Django DB, React/Reduc	2 Weeks
Database, creating modules, data access layers, controllers, views, creating mircoservice.	1 Week
Deployment on AWS, Security	1 Week



## Outcome

After these 5 weeks, you will have hands on experience of designing and coding scalable products.

You will be a great software developers.



## USPs of our Delivery

- Impactful projects like Netflix, flight reservation and notes like system. These projects help the student implement the concepts.
- Hands on experience of LLD and HLD.
- 1:1 discussion with your mentor regarding project improvements.

## PHASE - 5

# Get Placed at Top Tech Companies



**Duration: Until you get Placed**

Once you have upskilled yourself to become a great software engineer, it is important that we now focus on getting you interview opportunities from diverse companies.

This process is usually in 3 phases:

1. Build a strong profile
2. Applying the right way
3. Acing the interview

We focus on all the above 3 objects in this phase.

### 1. Building a story profile

- Resume Creation
- LinkedIn profile optimization
- Profile creation on other platforms

### 2. Applying the right way

- Opportunities through Bosscoder Collaboration with 100+ tech companies
- Referral to almost all the top product companies
- Sharing hiring requirement of different companies

### 3. Acing the interview

- On Demand Mock interviews
- Offline & Online Interview Guidelines
- Salary Negotiation





## Outcome

You getting placed at one of the top tech companies like Google, Microsoft, Amazon, Apple & sharing us a personal review of your journey with us.

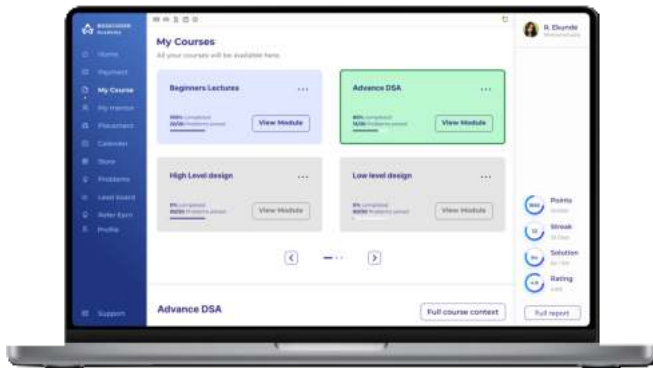


## USPs of our Delivery

- Student success manager stay connected with you throughout your placement journey to ensure you achieve best outcome.
- Collaboration with 100+ companies for tech hiring
- Collaboration with consultancies who hire for top tech companies
- Referrals from our alumni & mentor community for almost all the companies.
- Resume reviews, profile building increasing your chances of getting shortlisted.
- On demand mock interviews with mentor before a specific interview.
- 100% support from our team to help you succeeds

# Why upskill with us?

Our USP is the trust top professionals have in us. And with a salary hike of 120.34% - it's a thumbs up for our learners as well.

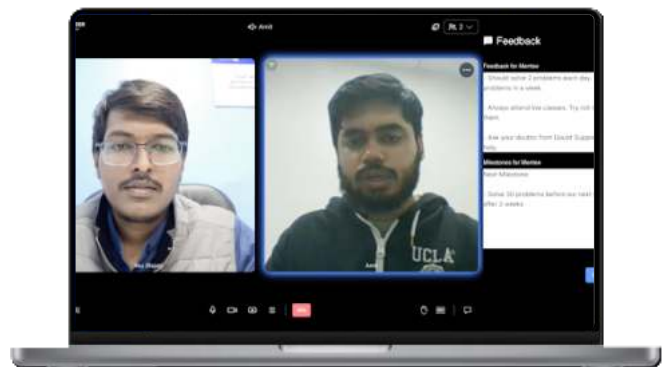


## Personalized Learning

We believe in personalized learning experiences, and your personal success manager will ensure the same.

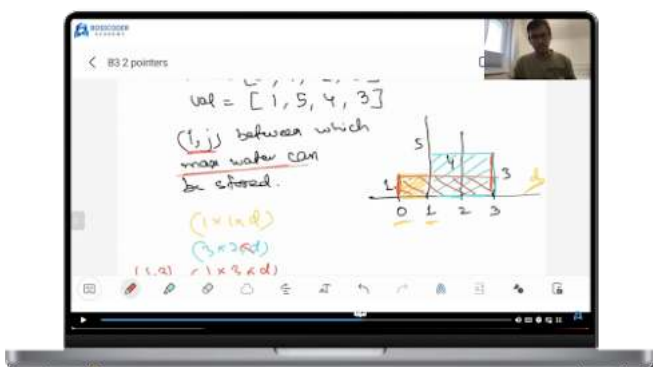
## 1:1 Mentorship

1-on-1 sessions with a mentor that knows the industry deeply, will help you achieve heights and upskill like never before.

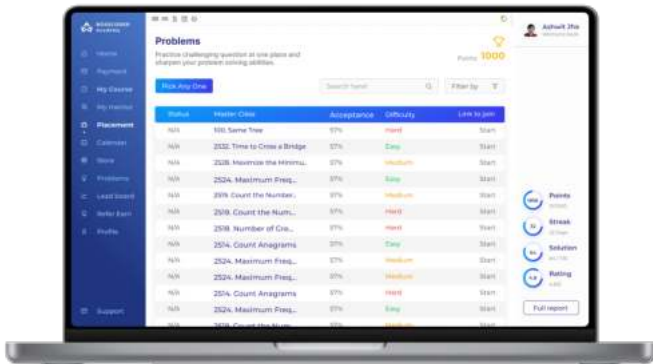


## Live Classes

All the classes inside the course will be taught live by instructors having experience working at top tech companies. Our optimal batch size ensures you get your doubts cleared in real time inside the classes.



# Why upskill with us?

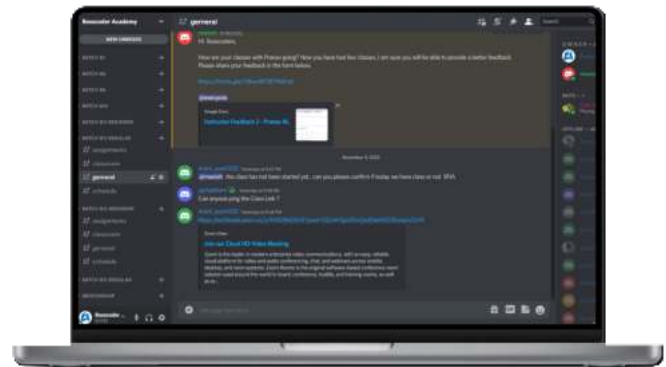


## Regular assignments

Regular assignments after every lecture will ensure you remain consistent, and if you get stuck in a problem - 24x7 doubt support is just a click away.

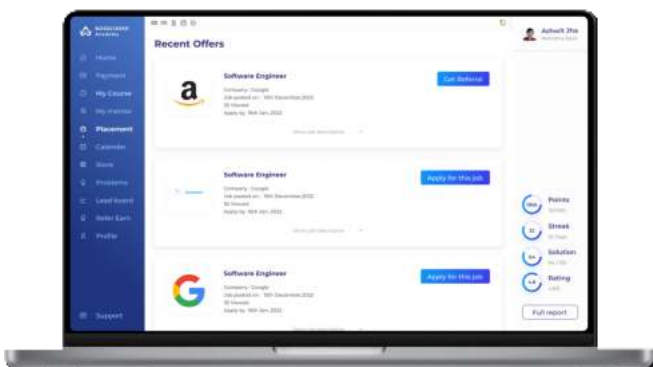
## Motivated Community

Thriving & growing community of learners colleagues who have the same ambition as you. Bond with future top software engineers over group sessions.



## Recruitment Team

Once you upskill to ace an interview, our Recruitment team works with you to provide diverse opportunities. Our recruitment team provides 360 deg profile optimization, resume building, referrals, direct opportunities, salary negotiation, etc.



# Program Outcome

762

Learners Placed

6.25x

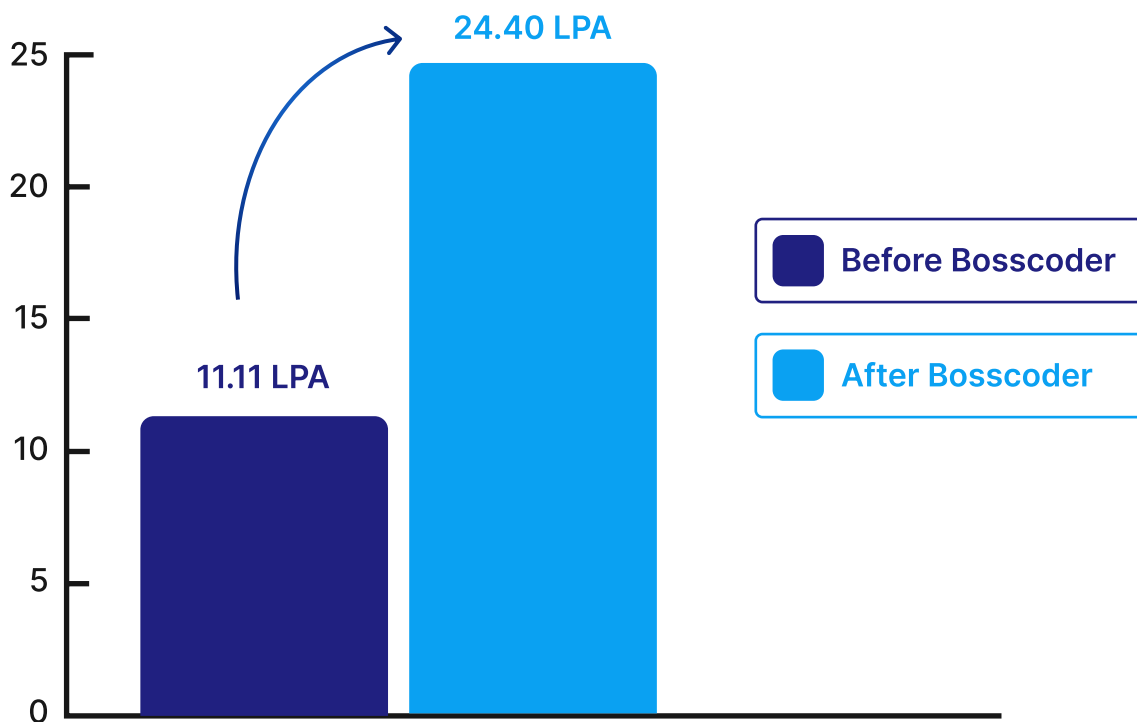
Return on Investment

86 LPA

Highest Package

120.34%

Salary Hike



Average CTC

# Alumni thoughts about Bosscoder



**Ujesh Nada**

Software Development Engineer, Google

## Byju's Sales Rep to SDE at Google

I self-prepared DSA for 8 months, without any results. I joined Bosscoder Academy since I wanted to be mentored by industry experts, and it proved to be a great decision for my DSA and System Design preparation. Their 1-on-1 mentor sessions and Live classes helped me transform my career.

Before → After  
**Byju's** → **Google**  
BDA SDE



**Lakshmi susmitha**

Software Engineer II, JP Morgan

## Service Based to JP Morgan in 4 months

From a tier-3 college to working in service-based companies, my thirst to join a product-based company didn't go away. Bosscoder helped me provide a very detailed path from coding to system design. The way of teaching, and 1:1 mentorship helped me a lot.

Before → After  
**IBM** → **JP Morgan**  
Application Engineer Software Engineer II



**Dheeraj Barik**

Software Engineer 2, Amazon

## System Engineer at Infosys to SDE 2 at Amazon

Working in Infosys, I was looking for a platform to prepare for interviews of product-based companies. I found Bosscoder has a highly structured program covering DSA, System Design etc. in detail. Top-quality instructors and mock interviews proved helpful for me.

Before → After  
**Infosys** → **Amazon**  
Systems Engineer SDE 2



**Sumedha Khandelwal**

Technical Lead at Jubilant Foodworks

## Scared of Technical Interviews to Technical Lead

Having 7 years of experience, I always believed there is more to achieve in my career but failed in technical interviews. Bosscoder helped me gain confidence to face technical interviews and I received many offers. Mock interviews and mentor feedback helped a lot.

Before → After  
**IHS Markit** → **Jubilant Foodworks**  
Software Engineer Technical Lead

# Alumni thoughts about Bosscoder



**Vishal Srivastava**  
Software Developer, Barclays

## Cognizant to London Based Bank

Doing self-prep, I couldn't even pass online assessments of Top companies. But the change Bosscoder Academy brought into my preparation is phenomenal. Crucial topics taught in Live classes like DSA, HLD, and LLD, and my personal mentor's guidance ensured I clear my dream company.

**Before** → **After**  
**Cognizant** → **Barclays**  
Programmer Analyst Trainee → Software Developer



**Agniva Dutta Chaudhary**  
Software Engineer, Cisco

## Associate Consultant at Oracle to SDE at Cisco

I wanted to join a top product based company but could not be consistent in my preparation. As a beginner, Bosscoder Academy helped me grasp important concepts of DSA and System Design. By being consistent, I received offer from AppDynamics (Cisco), PayU, JP Morgan & Chase and Hyland.

**Before** → **After**  
**ORACLE** → **CISCO**  
Associate Consultant → Software Engineer



**Niraj Kumar**  
Software Engineer 2, IQVIA

## 5 years stuck in IBM to SDE 2 at IQVIA

I dreamt of working in product based company but for was stuck in IBM working on a same tool. Bosscoder Academy helped me prepare Data Structures and Algorithms in a structured way. Knowledgeable instructors and a proper prep roadmap helped me change career to product based.

**Before** → **After**  
**PPD** → **IQVIA**  
System Developer → SDE 2



**Akhil Reddy**  
SDE 2, Recro

## Infosys to SDE 2 at Recro

I was not able to crack interviews of top product based companies due to lack of understanding in DSA and System design. Bosscoder Academy helped me gain confidence in these topics. Their structured curriculum and top class mentor support helped me upskill and crack Recro.

**Before** → **After**  
**INFOSYS** → **RECRO**  
Associate Consultant → SDE 2



# Upskill Now and Shift to Top Product-Based Companies

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Reach out to us at  
[ask@bosscoderacademy.com](mailto:ask@bosscoderacademy.com)

Check out our

[Placement Brochure](#)