



ACCELERATOR

CURRICULUM

BROCHURE

A screenshot of a laptop displaying the BossCoder Academy website. The left sidebar contains navigation links: Home, Payment, My Course (highlighted), My mentor, Placement, Calender, Store, Problems, Lead board, Refer Earn, Profile, and Support. The main content area is titled 'My Courses' and shows four course modules: 'Beginners Lectures' (100% completed, 20/20 problems solved), 'Advance DSA' (80% completed, 15/20 problems solved), 'High Level design' (0% completed, 00/20 problems solved), and 'Low level design' (0% completed, 00/20 problems solved). Each module has a 'View Module' button. On the right side, there's a user profile for 'R. Ekunde' with the message 'Welcome back', and a sidebar with performance metrics: Points (1856 / 15/1000), Streak (32 / 32 Days), Solution (64 / 64 / 100), and Rating (4.8 / 4.8/5). At the bottom, there are buttons for 'Full course context' and 'Full report'. The footer of the website includes links for 'About Us', 'Contact Us', 'Privacy Policy', and 'Terms & Conditions'.

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Context

Why the importance of Tech roles is growing?

Over the past few years, there has been remarkable growth in technological innovations. Even in sectors where any growth was least expected, such as agriculture, construction, and healthcare. Technological advancements are 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 software at scale.

And for the next 5 years, 12 million vacancies have been estimated to be filled for engineering jobs.

In the past year itself, an increase of 120% was witnessed in salaries of Software Engineers, with an amazing placement rate of 93.5%.

Some benefits of starting your software engineering career with a top product-based company include

1. Growth and Development Opportunities
2. Good package and Brand prestige
3. High-impact and Innovative Work

However, college students face many difficulties while upskilling -

1. Lack of consistency resulting in lack of results.
2. Unstructured Path which leads to shallow learning.
3. Lack of proper guidance leads to inefficient preparation.
4. Lack of peer community to improve in coding together.

We understand our learners challenges & to overcome those, BossCoder Academy has helped them upskill & get them placed at top tech companies.

Right Mindset required to Upskill the Right Way

- Ⓐ Commitment to attend classes, solve assignments, work with peers, and attend mentor sessions.
- Ⓐ Openness to learn: You may feel that you know some part of the curriculum already but we assure you that we only spend time on concepts that add to your clarity and confidence. So step in with an open mind.
- Ⓐ Have positive energy and build relationships with your peers, participate and help each other out.
- Ⓐ Believe in yourself: This will help you focus better and learn faster.

What will you gain from this program?

 By the end of this program you will gain:

1. Solid command of Problem-Solving skills in DS and Algorithms.
2. Thorough knowledge of CS fundamentals.
3. Specialization in Full Stack.
4. Fundamental understanding of System Design (LLD + HLD) so that you are able to clear interview rounds of System Design easily.
5. Ability to solve logical reasoning questions asked in initial coding assignment test for most of the tech companies.

 Healthy competition amongst peers via assignments and weekly leaderboards.

 Multiple 1:1 mock interviews with mentors working at top tech companies who have taken a lot of interviews before.

 Get Govt. of India Authorized Certificate after the completion of the Program.

Curriculum Deep-dive

Phase 1 24 Hours

Programming Constructs



Phase 2 96 Hours

Problem Solving in DS & Algo



Phase 3 24 Hours

CS Fundamentals



Phase 4 12 Hours

System Design - LLD + HLD



Phase 5 48 Hours

Project on Full Stack Development

PHASE - 1

Programming Constructs



Duration: 24 Hours

For Beginners, 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	6 Hours
Loops, Pattern Problems, Functions	6 Hours
1D Array, Number System & Maths	6 Hours
Intro to Data Structure, Time Complexity - basic strings	6 Hours



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

- Assignment (post lecture) & their evaluation

PHASE - 2

Problem Solving in DS & Algo



Duration: 96 Hours

Problem solving in DS and Algo is one of the most important topic to master for a software engineer fresher. That is why, we spend the first 120 hours of our program ensuring you build a solid command over problem solving skill.

Time Complexity, Arrays, Strings, Maths, Bit Manipulation, Binary Search, 2 Pointer	18 Hours
Recursion, Hashing, Sorting	18 Hours
Stacks, Queues, Linked Lists, Trees, Tries, Segment Tree, Heap	24 Hours
Greedy, Dynamic Programming, Graphs, Advance Data Structures	36 Hours



Outcome

After this 96 hours, 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

- 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 - 3

CS Fundamentals



Duration: 24 Hours

The next 24 hours of our course will build your fundamentals of Computer Science and will make you very confident about them. CS Fundamentals is a topic where you can expect MCQ questions, interview questions as a college student. For the same reason, we help you gain deep understanding around these concepts.

Operating Systems	6 Hours
Computer Networks	6 Hours
Database Management systems	6 Hours
Object oriented programming	6 Hours



Outcome

After these 24 hours, you will gain detail knowledge of CS Fundamental topics. This will help you solve MCQs & interview questions easily.

PHASE - 4

System Design - LLD + HLD



Duration: 12 Hours

Nowadays, top tech companies are including basic level System Design questions in their interview process. That is why, you will spend the next 12 hours understanding the basics of System Design & solve multiple interview problems. You will learn how to write structured code, design patterns & scalability of system.

Low Level Design - Entity Selection, Class & ER Diagram, Design Patterns, LLD Design Problems	6 Hours
High Level Design - Distributed System, Load Balancer, Scaling Systems, SQL VS NoSQL, Design Problems	6 Hours



Outcome

After these 12 hours, you will have fundamental knowledge of System Design & gain confidence in solving interview problems.

★ USPs of our Delivery

- Crisp content around System Design helping you crack design rounds as a fresher

PHASE - 5

Project on Full Stack Development



Duration: 48 Hours

As a fresher, companies focus on your development skills and check what type of development experience you have.

That is why it is important that you build your skillset by developing projects based on your interest.

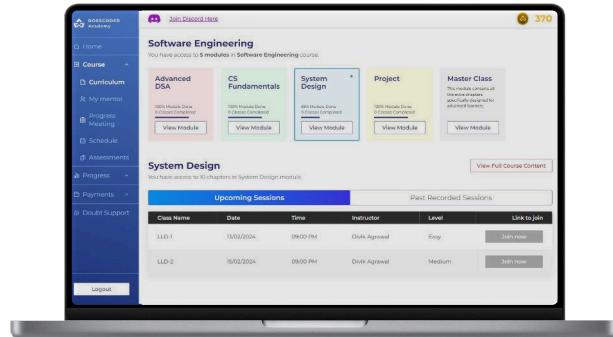
Topics that will be covered:

- HTML
- CSS
- JavaScript
- React
- Building a server
- MVC
- Web Architecture
- Node.js
- Backend Architecture
- Mongo DB
- DB Design & SQL Queries
- Capsule Project #1
- Capsule Project #2

After this module, you will build a skillset around core 2 things:

- Good command over 1 tech stack/ framework like MERN stack.
- Ability to implement System Design, and problem-solving concepts into the practice of building products.

Why upskill with us?

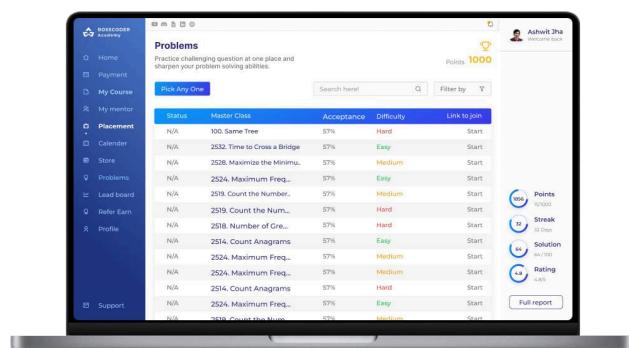
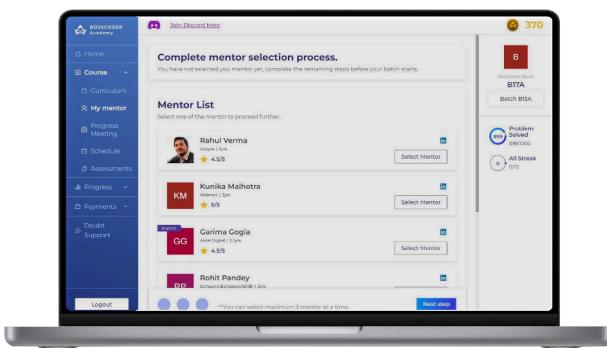


Personalized Learning

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.

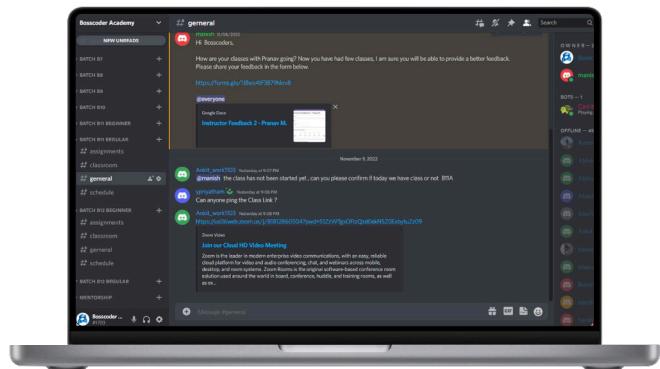


Regular assignments

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.



Alumni thoughts about BossCoder



Arya Sekhar Bandopadhyay
Software Engineer, Arcesium

SRM University to SDE at Arcesium

I was looking for an upskilling program to improve my coding skills and eventually joined BossCoder Academy. It proved to be one-stop solution for cracking top tech roles. Mentor sessions and mock interviews with people from Google and other top companies helped me gain confidence in DSA and System Design.

Before

SRM University



After

Arcesium
Software Engineer



Mathi Saihemanth
Software Engineer, Microsoft

Inconsistent Fresher to SDE at Microsoft

I was familiar with some concepts of DSA, but couldn't progress due to inconsistency. BossCoder Academy's helped me upskill and gain confidence in key concepts like DSA, System Design and OOPs. Personal mentorship, structured curriculum and Mock interviews helped me crack Microsoft.

Before

IIT Jammu



After

Microsoft
Software Engineer



Vivek Sangwan
SDE 1, Hyland

Tier 3 to Software Engineer at Hyland

I was overwhelmed with resources and it led to me doing nothing. BossCoder Academy's mentor helped me and showed me the clear path to my goal. Structured curriculum, TA support and regular Mock Interviews helped me solve more and more problems, eventually I cracked developer role at Hyland.

Before

Poornima University

After

Hyland
Developer 1



Anu Agarwal
SDE 1, Cleartrip

Misdirected prep to SDE at Cleartrip

I had a lot of resources to prepare from but did not know the roadmap to follow. BossCoder Academy provided with a curriculum that was structured syllabus was comprehensive. Doubt clearing sessions along with a proper roadmap helped me crack offers from Highradius, Tata Digital and Cleartrip (Flipkart).

Before

KIIT



After

Cleartrip
SDE 1

Alumni thoughts about BossCoder



Aarushi Jain

Software Development Engineer, Atlassian

No interest in coding to SDE at Atlassian

My journey in college was a roller coaster ride, and I wasted a lot of time in learning from free resources. BossCoder Academy's excellent curriculum helped me become consistent and invest my efforts in right direction. With my mentor's guidance, I received offers from Amazon and Atlassian.

Before
NIT Delhi



After
Atlassian
SDE



Harshith Ravinoothala

R&D Engineer 1, Synopsys

Tier 3 College Student to Product Based Company

I always wanted to get into a product based company, but being a tier 3 college student lacked exposure to coding. BossCoder Academy helped me gain confidence in DSA and core subjects like OS, DBMS and System Design. Instant Mentor support helped me stay clear of doubts.

Before
G Pulla Reddy
Engineering College



After
Synopsys
R&D Engineer



Vathsav

SDE, AppDynamics

Below Average Student to SDE at AppDynamics

I was rejected on Campus placements, not able to clear first round of interviews. I required correct guidance and a saviour that came in form of BossCoder Academy. With helpful mentors, and 1:1 mock interviews, I was able to learn where I am lacking. BossCoder literally helped me accelerate my tech career.

Before

VNIT



After

AppDynamics
Software Engineer

EMPOWERING “OUT OF SCHOOL” CHILDREN



For every BossCoder program enrollment, we contribute 1% towards the education of ‘out of school’ children.

Changing Lives: Our Impact Stories



Sandhya dropped out of school & had to do household chores & begging to support her family.

1st girl in Basti to go out to Pursue education, completed 12th while working & now pursuing BSW in IGNOU.



Amit (here, age -34) studied in school till 5 but has to drop out to earn and support his family.

Amit has now joined us a Community Leader as well as a facilitator in Truck Union Basti.



Obtain a Government of India
authorized certificate after qualifying
the assessment.





Upskill Now and Get Industry Ready for Top Tech Companies

Reach out to us at
ask@bosscoderacademy.com