



techventive.io
US Engineering Studio

Cohort enrolling now

info@techventive.io · 202-709-6940
5010 Sunnyside Ave, Suite 108, Beltsville, MD 20705
www.techventive.io

NINJA CODER BOOTCAMP

Ninja *Coder*

6 weeks · All Levels (Beginner+ to Advanced) · live + recorded

A hands-on competitive-coding and interview-prep curriculum covering data structures, algorithms, problem-solving patterns, and system design — taught in Python, C++, and Java side by side so you can crack FAANG-tier coding interviews in any language.

10

CORE MODULES

35+

PRACTICAL SKILLS

5+

PROJECT TRACKS

1:1

CAREER SUPPORT

The *production stack* you'll master

Each tool taught with the workflows and failure modes practitioners actually meet on the job.

01
Python 3

Interview-grade Python

02
C++ 17

Performance-critical C++

03
Java 21
Modern Java

04
LeetCode
Practice platform

05
HackerRank
Practice platform

06
VS Code
IDE

07
Git
Version control

08
Excalidraw
System design diagrams

09
CompetitiveProgramming
Online judges

10
InterviewBit
Mock interviews

Foundation *modules*

First half of the curriculum – core fundamentals and the most common day-to-day skills.

01

Complexity & Mental Models

Big O notation, space vs. time, recursion vs. iteration, the 'whiteboard mindset', interview rubric.

02

Arrays & Strings

Two pointers, sliding window, prefix sums, in-place transformations, common interview patterns.

03

Hash Maps & Sets

Hashing fundamentals, collisions, when to reach for a map vs. a set, classic problems.

04

Linked Lists & Stacks/Queues

Fast/slow pointers, reversal, dummy heads, monotonic stacks, queues for BFS.

05

Trees & Graphs

Binary trees, BSTs, traversals (in/pre/post/level), graph representations, BFS / DFS, topological sort.

Students

Crack campus placements and on-campus FAANG interviews.

Working Engineers

Move from a mid-tier company to FAANG / unicorn / Series-B+ startup.

Career Switchers

Prepare for entry into competitive software roles.

Interview Prep

Anyone in active interview prep — short, intense, results-focused.

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Advanced *modules*

Second half – production patterns, real-world operations, and the senior-level depth.

06

Recursion & Backtracking

Decision trees, pruning, permutations, combinations, N-queens, sudoku solver.

07

Dynamic Programming

Memoization vs. tabulation, classic DP problems, state design, common pitfalls — the most feared topic, demystified.

08

Greedy & Heaps

When greedy works, priority queues, top-K problems, scheduling problems.

09

Advanced: Tries, Union-Find, Segment Trees

Beyond the basics — for senior + L5/L6 interviews.

System Design for Coding Interviews

URL shortener, rate limiter, chat app, news feed — the system-design rounds that decide senior offers.

🔑 Hands-on project outcomes

- Solve 200+ LeetCode problems across all major patterns.
- Implement core data structures from scratch in Python, C++, and Java.
- Crack DP problems with a systematic state-design approach.
- Pass a FAANG-format coding round end-to-end.
- Pass a system-design round at the senior IC level.
- Build the habit of explaining your thinking out loud while coding.
- Switch languages mid-interview based on what fits the problem.
- Mock-interview at least 10 times before going live.

🎓 Course learnings

- Data structures and algorithms at FAANG depth.
- Problem-solving patterns — the meta-skill of coding interviews.
- Python, C++, and Java for interviews side by side.
- System design for coding-interview format.
- The interview rubric — what graders actually look for.
- Mock interview muscle — fluency under pressure.

Career readiness, *built in.*

techventive.io turns this curriculum into job-ready positioning — project explanation, résumé and LinkedIn rewrites, GitHub portfolio polish, technical interview preparation, and placement-focused guidance through to the offer letter.

Software Engineer (FAANG-tier)

Senior Software Engineer

Algorithm Engineer

Competitive Programmer

Tech Interviewer

Senior Full Stack Engineer

Who can *apply*

Freshers, working professionals, managers, career switchers, and aspirants who want a practical, job-focused path.

Students

Working Engineers

Career Switchers

Interview Prep

Start your Ninja Coder journey with techventive.io.

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