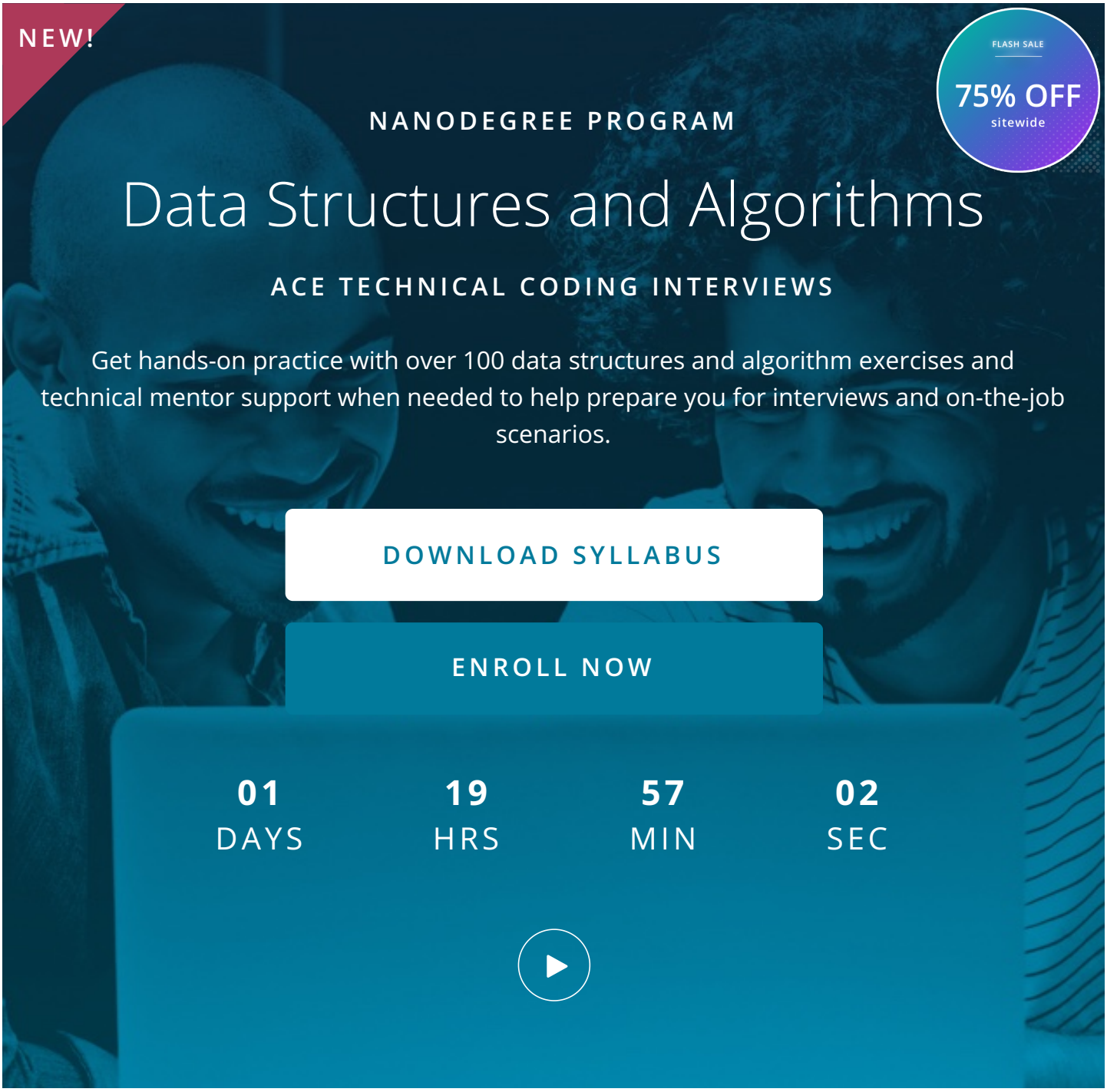

ESTIMATED TIME

4 Months

At 10 hrs/week

Go to Course

ENROLL BY

July 14, 2021

Get access to classroom immediately on enrollment

PREREQUISITES

Python and Basic Algebra

See prerequisites in detail

Syllabus

DOWNLOAD SYLLABUS

SYLLABUS

Data Structures & Algorithms

Learn data structures and algorithms by solving 100+ practice problems.

Related Nanodegrees

− HIDE DETAILS

PREREQUISITE KNOWLEDGE

Python & Basic Algebra. See detailed requirements.

Introduction

Get an overview of your program. Meet your instructors, and refresh your Python skills. Learn the framework to deconstruct any open-ended problem

and then understand the concepts of time and space complexity.

UNSCRAMBLE COMPUTER SCIENCE PROBLEMS

Data Structures

Learn different data structures that can be used to store data. Implement different methods used to manipulate these data structures and examine the efficiency. Understand the advantages and applications of different data structures. Learn how to approach open ended problems (either in interview or real-world) and select appropriate data structures based on requirements.

SHOW ME THE DATA STRUCTURES

Basic Algorithms

Learn and implement basic algorithms such as searching and sorting on different data structures and examine the efficiency of these algorithms. Use recursion to implement these algorithms and then learn how some of these algorithms can be implemented without recursion. Practice selecting and modifying these algorithms for a variety of interview problems.

PROBLEMS VS. ALGORITHMS

Advanced Algorithms

Build on your algorithm skills by learning more advanced algorithms such as brute-force greedy algorithms, graph algorithms, and dynamic programming which optimizes recursion by storing results to sub problems.

ROUTE PLANNER

All Our Programs Include

Real-world projects

from industry experts

With real world projects and immersive content built in partnership with top tier companies, you'll master the tech skills companies want.

Technical mentor support

Our knowledgeable mentors guide your learning and are focused on answering your questions, motivating you and keeping you on track.

Career services

You'll have access to resume support, Github portfolio review and LinkedIn profile optimization to help you advance your career and land a high-paying role.

Flexible learning program

Get a custom learning plan tailored to fit your busy life. Learn at your own pace and reach your personal goals on the schedule that works best for you.

Full List Of Offerings Included:

CLASS CONTENT	
Real-world projects	✓
Project reviews	✓
Project feedback from experienced reviewers	✓
STUDENT SERVICES	
Technical mentor support NEW	✓
Student community IMPROVED	✓
CAREER SERVICES	
Resume support	✓
Github review	✓
Linkedin profile optimization	✓

Succeed with Personalized Services

We provide services customized for your needs at every step of your learning journey to ensure your success!

Project Reviewers | Technical Mentor Support

Get timely feedback on your projects

REVIEWS BY THE NUMBERS

1,400+ project reviewers

2.7M projects reviewed

88/100 reviewer rating

1.1 hours avg project review turnaround time

REVIEWER SERVICES

- Personalized feedback
- Unlimited submissions and feedback loops
- Practical tips and industry best practices
- Additional suggested resources to improve

Learn with the best

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Abe Feinberg
CONTENT DEVELOPER

Abe is a Content Developer at Udacity and previously taught university courses in psychology and computer science. He loves both learning and teaching, and has a particular passion for breaking down difficult concepts and making them easier to master.

Kyle Stev
CONTENT

Kyle has developed p
Udacity's Nanodegr
Self-Driving Car Eng
Blockchain. Kyle, a se
always striving tow
learning experie

Practice With Over 100 Exercises

Complete over 100 data structures and algorithms problems and four projects to help prepare you for job interviews and on-the-job scenarios.

Solve Data Structures and Algorithms Problems

Learn how to approach well-defined or open-ended data structures and algorithms interview problems and how to implement the appropriate solution based on your design choices.

Beneficial and Supportive Project Review

Advance quickly and successfully through the curriculum with the support of experienced reviewers whose detailed feedback will ensure you learn skills the right way.

An Outstanding Community

Draw inspiration and knowledge from your student community. Stay on-track with the support of mentors when you need guidance on specific challenges or projects.

Top Student Reviews

4.6  (750)

Sam L. 

The program is good but I don't think it's worth the money. I got this one on 75% discount. I would never pay full price. There are similar courses out there for a fracti...

Gabriel C. 

I just finished the first part (of 4) of the course. It covered a bit of big O notation and problem solving. I got some useful tips from the latter, but I think I will see their value...

Muhammed Imr... 

I am writing code before I know basic data structures and I also gained couple of years working experience too. On

the time being I come to know that how important it is to...

Christopher S.

I'm really enjoying the program. I love the jupyter notebook exercises and the learn by doing approach. However I have found some of the exercises extremely...

Aaron A.

It's met and exceeded my expectations -- I am very happy with it, and have learned a lot. Time expectations set by how long each section says it'll take could be improved....

Neringa B.

I have learnt a lot theory and gained practical skills. Though one can not completely trust estimated time for each section because, for example, one lesson in section ...

NEXT →

GET STARTED WITH

Data Structures & Algorithms

LEARN

Ace technical coding interviews.

AVERAGE TIME

On average, successful students take 4 months to complete this program.

BENEFITS INCLUDE

- Real-world projects from industry experts
- Technical mentor support
- Career services

4 MONTHS ACCESS

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PAY AS YOU GO

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