

WHAT EVERY BE/BTECH FRESH GRADUATES WHO ARE WORKING IN SERVICE BASED COMPANIES LIKE CTS,TCS,HCL,WIPRO,ACCENTURE SHOULD KNOW

A MUST NEEDED AWARENESS FOR BE/BTECH FRESHERS WHO ARE WORKING IN SERVICE BASED COMPANIES LIKE TCS,CTS,HCL,WIPRO,ACCENTURE ETC ETC

S Kiran

After Wasting THEIR 4 YEARS OF PRECIOUS TIME IN USELESS ENGINEERING COLLEGES WHICH ARE WORST THAN REMOTE SCHOOLS,THESE COLLEGES CONDUCT A BIG JOKE CALLED PLACEMENT ,THE BIGGEST JOKE WHICH COULD HAPPEN IN THIS WORLD IS CALLED PLACEMENT IN Private COLLEGES ,IN THE NAME OF PLACEMENT ,NO GREAT SOFTWARE COMPANIES COME TO RECRUIT STUDENTS HERE BUT SERVICE BASED CONSULTANCY ,NOTHING BUT GLORIFIED CALL CENTRES LIKE TCS, CTS, HCL, WIPRO ,ACCENTURE ,TECH MAHINDRA,L&T all such shops come here,and students are collected a huge amount to attend these placements ,FROM THESE SHOPS .And are Bonded for certain short stint.

THE WORST THING IS 80–90% PERCENT OF THE STUDENTS STUDYING FROM NON IIT,NON IIIT ,NON NIT COLLEGES DONT EVEN KNOW THE DIFFERENCE BETWEEN SERVICE BASED AND PRODUCT BASED COMPANIES ,AND BELIEVE THAT JOINING IN ONE SUCH SHOPS IS THE BIGGEST ACHIEVEMENT in LIFE.

EVERY ENGINEERING STUDENT who is pursuing His CS OR IT or any other discipline in INDIA **MUST KNOW THAT SERVICE BASED COMPANIES are not SOFTWARE COMPANIES AT ALL,THESE IS SOMETHING THAT EVERY ENGINEERING STUDENT SHOULD KNOW ,HOW AM I SAYING SO?**

Names Of **SERVICE BASED COMPANIES** which **NO ENGINEER REGARDLESS OF HIS DISCIPLINE SHOULD NEVER EVER EVER JOIN**

- 1)COGNIZANT TECHNOLOGY SOLUTIONS
- 2)TCS(TATA CONSULTANCY SERVICES)
- 3)HCL

- 4)WIPRO
- 5)IBM INDIA
- 6)ACCENTURE
- 7)L&T SERVICES
- 8)TECH MAHINDRA PRIVATE LTD
- 9)LOTS OF OTHER SMALL SERVICE BASED

How DO I know they are service based?

- 1)When the pay is very less like 3–4 lakhs per annum
- 2)They work for clients ,And Only to maintain Records OF these clients
- 3)By their Interview standards you can Simply Judge,what kind of companies they are,Service based companies very very rarely ask You any technical questions,or simple very easy technical questions,But Most Of the time They are focused on asking questions like “Tell about your personal life”, “what is your Hobby?” “What are Your future goals” and the service based companies 99% of them conducts first round as quantitative aptitude and verbal reasoning ,Mostly based on RS Aggarwal,Followed by a technical HR,Where also very very basic subject related questions are asked,No product based Companies ask you Bullshit questions like “What are Your Hobbies “and blah blah ,Even If product based companies Ask such questions,These kind of questions might be in the last round,The First Round is a Programming Round,Where a question will be asked and you have to use your ALGORITHMS AND DS Knowledge to crack it,,If candidates have cleared The first programming Round Followed by a technical HR round happens, Where Questions based on Your subjects ;ie Data Structures,Algorithms,Computer networks,operating system ,System design are asked,and no loose talks happen.Their Interview standards are enough To help you Judge what kind of companies they are.

Can Engineering student work in such service based companies?

NO ,Engineering students should not,Because These companies Need only English speaking cheap labour ,and these companies Treat their employees as resource or labour ,giving them clerical works like maintaining records in outdated software,I think even a 6th standard Kid can do these works.These companies Dont AT ALL NEED ENGINEERING GRADUATES IN THE FIRST PLACE,THEY NEED

SOME LITERATE ENGLISH SPEAKING HUMANS THATS IT,ONLY PEOPLE WHO JUST WANT A JOB WITHOUT RISKING THEIR TIME FOR STUDIES,AND WHO WANT TO LIVE A VERY VERY RELAXED LIFE ,NOT BOTHERED OF THEIR GROWTH ,ONLY such people CAN JOIN THESE SERVICE BASED COMPANIES

The money paid to employees here are so low to sustain in a metropolitan cities ,That because Of these employees ,People like the hostel owner ,apartment owner,hotelier will become rich.

I will explain in Detail

1. Service based companies like TCS,CTS,HCL,WIPRO,TECH MAHINDRA AND ALL THESE blah blah companies are CONSULTANCIES,Which dont need any ENGINEERING STUDENT AT ALL ,
2. The works done in these companies **are nothing but pure data entry or maintaining and supporting old legacy works of other companies which are called clients by these companies.**
3. If you are an engineering student ,Studying any year ,**YOU MUST TAKE A FIRM DECISION THAT YOU SHOULD NOT JOIN IN ANY OF THESE SHOPS ,BECAUSE THIS IS 21ST CENTURY,COMPUTERS ARE GETTING AUTOMATED SO POWERFULLY ,THAT ONE DAY THE PEOPLE WHO ARE DOING THE DATA ENTRY CLERICAL works in these companies will be fired** ,Because great automation works are happening ,Which can replace the people who are working here ,As automation are effective,reliable ,THE MAIN REASON WHY IN NEWS AND MEDIA YOU HEAR THAT TCS OR CTS OR SUCH SHOPS FIRE 8000 EMPLOYEES IS ALL BECAUSE OF THIS.
4. PAY IS **PALTRY IN THESE COMPANIES,YOU MUST THINK ONE THING** ,IF these companies are really software companies why do they pay just 3–4 lakh per annum,Only a starting level clerk in any government Job will get this salary,any software company or product based start with 10 lakhs to 40 lakh per annum,SO THESE COMPANIES ARE NOT SOFTWARE COMPANIES
5. Being in this company You waste your time for atleast 8 -9 hours Everyday Doing Nothing useful ,As these companies employees have to mandatory stay inside the office for 9 to 9.5 HOURS everyday ,Doing the cheap english speaking clerical data entry works .
6. **IF YOU THINK THAT GETTING PLACED IN ONE SUCH SHOPS THROUGH YOUR COLLEGE PLACEMENT YOU HAVE ACHIEVED SOMETHING,THEN CONGRATS,YOUR COLLEGE HAS SUCCESSFULLY FOOLED YOU INTO BELIEVING THAT YOU ARE GOING TO WORK IN A SOFTWARE FIRMS,WHERE IN REALITY YOU ARE A CS GRADUATE BUT GOING TO WORK AS A CLERK IN THESE COMPANIES**
7. Secondly ,These Companies cheat Poor students By displaying Their infrastructure and work place ,when these companies come to recruit students,so that students will believe ,they are gonna work in great software firms,but in reality ,One should also know that,Computers are not only meant For coding ,They can also Be used To maintain Records through some old legacy software ,Computers are for coding and High technology in Software companies ,But The computers in these service based shops offices are **ONLY FOR MAINTAINING RECORDS ,OF CLIENTS**
8. These companies Give you training for 3 to 4 months initially in technologies like C,JAVA,SQL,DOTNET etc etc ,And they will conduct assessment in labs on these technologies,Now this is related to engineering only,Then why Am i saying these companies are

not engineering companies? They *train You in all these technologies ,because you as a fresher,who is ready to do the cheap pay work is very very important to them,These service based companies dont want you know that you are going to work in MS-EXCEL t doing ctrl+C ,ctrl+ V just throughout your life,To keep you people ignorant of the actual data entry works ,These companies train you in any technology for 3 months,Thereby brainwashing you to believe that you are going to do project in one of those trained domains ,but this is a cheap trick to make you become useless throughout your life,BEWARE ,DONT GET DECEIVED,THESE COMPANIES WANT PEOPLE TO DO THESE DATA ENTRY WORKS AT VERY CHEAP PAY,THAT IS WHY THEY SELECT ENGINEERING STUDENTS EVERY YEAR.*

9. These company employees who have spent some 3–4 years in these companies are the dumbest and the lamest people existing on this earth. These Employees dont even know the T of the word talent ,or the H of the word hardworking or the S of the word Skill, These senior employees ,Know only Buttering their managers and boot licking of Higher Officials, They dont even respect Their Junior employees who as entered into their team for the first time, And If they Find this fresher hardworking, They will do every Thing To take this Fresher Junior out of his team. Peers dont even have any respect for each other ,as these companies are prone to recession ,So These people who are skillless ,always want to ensure their security in these companies, So they will back stab their peers as much as they can. Such a shameless things happen. I m 10000% telling the truth.
10. Peers are so Jealous of one another, That they will exploit You in core, And that If you are a fresher, who is newly entering a team ,after completing your 3 months of training, The seniors will treat You like shit. These service based shops dont even know how to treat freshers and Juniors. They Give support works, which is pure data entry works to Juniors ,For atleast 2–3 years, A complete waste of time, And If any fresher who has done engineering, cant tolerate this Injustice and goes to the Human resources Department ,and tells ,he/she wants pure development works, These HR team will ask this fresher to Resign from their organisation. Freshers for the first couple of months dont even have a computer allocated. let alone computer, They Dont have any chair also to sit, These poor freshers sit behind someone ,seeing what his peer is doing, Thereby thinking, what is happening to his life.
11. Even If anyone is talented and works hard day and night also, He will not be prioritised Due to boot licking skillless people and heavy make up Girls.
12. Ok Some might Think that By working in one such shop and gaining EXPERIENCE ,ONE CAN JUMP TO GREAT SOFTWARE COMPANIES, THIS IS ANOTHER **MISTAKE IN YOUR ASSUMPTION, THESE SERVICE BASED SHOPS DONT WRITE A SINGLE LINE OF CODE OR WORK IN ANY LATEST TECHNOLOGY, THEN WHAT WILL YOU WRITE AS YOUR EXPERIENCE ,IF YOU ARE APPLYING FOR REAL SOFTWARE BASED FIRMS? YOUR EXPERIENCE RELEVANT TO SOFTWARE ENGINEERING will be taken as zero ,when you are applying for product based software companies**
13. Only 10%-20% Development happens in these companies and those development also are only very very Minute change in the existing code ,Not any challenging though
14. These companies have business units ,where Employees work for respective clients in those units, Many clients Restrict the usage of cell phones also, And there are many business units ,where client restricts all the websites ,which are not related to those data entry works ,So already 9 hours wasted completely ,with not even 5 minutes of career related growth work is done

15. People Commute From these offices to house,In metropolitan cities ,where heavy traffic is there,Not all But many do,Thereby 2 hours again is wasted with 9.5 hours .
16. Freshers of colleges are mostly Put in **support works ,Which is nothing but pure data entry works,Wasting their time and being treated like a slave**
17. The Freshers are Put here in Bench which can last from 1 to 5 months,Which means doing nothing ,But ideally sitting In the office ,Again a big waste of One's time
18. Most of the people who work here ,Get promoted Not because of any computer or technical skill,But by buttering their managers,Almost 80–90 % of the people who work here in these shops,have nothing called career goals or technical growth,Girls (not all) ,Butter their managers ,By Make ups and good looks ,And heavy politics happens,I dont mean All Girls,But most of them,I have heard my relative telling me this,As works in these companies are very very less,But still because of mandatory 9 hour stay,Most employees are often seen for most of the hours In these companies Office Canteen ,Eating ,merrying often discussing about english TV Series,But never even one time these people discuss useful things

In linkedin i have seen employees belonging to such shops writing salesforce developer ,Many of these service based shops employees in linkedin write themselves as "salesforce developer" ,"Oracle developer ".These employees are actually just joking by giving names like this in linkedin.Now you might think that these service based shops have tied up with salesforce and they might be working on salesforce or oracle .That is not the case,When These employees write "salesforce developer " It means ,That they are performing data entry operation on a salesforce Developed software.Salesforce has developed lots of Business software.These companies buy This software and perform business data entry In such software.Seriously The employees who put like this in their resume,are fooling themselves.please Beware .These cheap employees are not DOING ANY PROJECT on salesforce or oracle.They are performing data entry operation on a salesforce developed software.

Let me Give you a powerful example,Suppose you are working as a receptionist in a sophisticated Hitech Hospital,And you are taught To actually enter The details of a newly entering patient ,Into an already available Hospital software ,Since you are working at a Hitech hospital ,You are entering These Records Into a Computer software ,You are taught how to enter the details Of the patient like name,age,Native place,and etc etc basic details ,As a receptionist,Just to enter the basic details Into this software ,Is enough FOR YOU,YOU DON'T NEED TO KNOW ANYTHING ABOUT THE SOFTWARE ,LIKE ITS FRONT END BACK END ETC ETC,Just you need to know to operate the keyboard and enter and drag and drop and checkbox and enable or disable any fields

THIS KIND OF WORK IS WHAT IS EXACTLY ,VERY EXACTLY DONE BY THE PEOPLE WHO WORK IN ONE SUCH SHOPS,I HAVE MY RELATIVES WHO WORK IN ONE SUCH FIRMS,THEY TOLD ME THAT THEY HAVE A REMOTE SOFTWARE INSTALLED IN THEIR SYSTEM,IN WHICH ONCE IN A WHILE ,SOME TICKET COMES ,AND SEEING THAT TICKET,BASED ON THE TICKET THEY WILL just Open the software and so such minor modifications,I asked ,is this what a people in such firms do?He told me 90 percent of the people do only such exact works in different softwares, only some 10 percent work on codes ,that Too only VERY MINOR MODIFICATIONS ,and these 10 percent of the people

So Now Think Is this work anything more than data entry?Just like the hospital receptionist who does that data entry work cannot Become a software Engineer in great Firms,People who are working in service based shops also because of performing these cheap works cant switch to great product based firms,if You think it is completely insane for a receptionist and billing clerk To jump Into great Software firms,With just data entry skills,IT IS **ABSOLUTELY SENSELESS TO SWITCH TO PRODUCT BASED COMPANIES WITH THESE DATA ENTRY SKILLS working in service based.**

So what has these companies to do with private engineering colleges?

19. Only such Service based shops visit These private engineering colleges
20. Except Top private Engineering colleges and Top state Government engineering colleges ,no great software companies,which does real engineering works ,VISIT ANY OF THESE PRIVATE ENGINEERING COLLEGES,I M 1000000 PERCENT SURE
21. These private Engineering colleges Suck students money so much charging such as No dues ,fine,tution fees and all fees for petty works,And yet They make students clerks in these companies
22. Why do Service based Companies Visit these colleges?Because These Colleges invest their money And pay money To these service based shops,To conduct a JOKE CALLED PLACEMENT ,Where Students are not shifted as engineers in these firms rather than clerks into Service based shops
23. These Engineering colleges should be ashamed that rather than making students as engineers ,in great firms ,They are sucking so much money ,But making Them as CLERKS IN THESE SERVICE BASED SHOPS ,THIS IS THE MAIN REASON WHY MEDIA AND NEWSPAPERS SAY STUDENTS DONT HAVE TECHNICAL SKILLS,EVERY ENGINEERING STUDENT FROM THIS COLLEGE MUST KNOW THAT IF YOU GOT ADMITTED INTO A COLLEGE WHICH CONDUCTS PLACEMENT BY CALLING COGNIZANT,TCS,wipro,hcl,accenture,AND ETC ETC ,THEN THEY ARE PLAYING WITH YOUR LIFE FOR 4 YEARS ,AND THAT TOO IF YOU ARE STAYING IN HOSTEL,YOU HAVE WASTED YOUR SOLID 4 YEARS LIKE A 4 YEAR EXCURSION ,SO DONT EVER EVER ATTEND THE PLACEMENT OF THESE COMPANIES

So Now what should an employee who works in one such service based shops do?

- If You are an employee who completed BE in NON CS/IT ,**BUT NOT INTERESTED IN PROGRAMMING AND ANY LATEST TECHNOLOGIES**,but you are interested in your core course,start preparing For GATE to Enter DRDO ,BHEL,BEML and such navarathna companies,Download GATE Syllabus,and start preparing from Your Given Course Books,And Focus on those Topics,Specifically Which are Prescribed For your GATE syllabus,From Your books
- If you are a person did NON CS,NON IT Course ,and Do not like computer programming or stuffs related To computers,But Just want a Job after a Degree,Go for Other Government Jobs like UPSC,BANKING,STATE PUBLIC SERVICE COMMISSION OR OTHER HIGH PAYING GOVERNMENT JOBS,being in these colleges.
- If you did Non CS/IT ,But wants to join core companies **but not interested in computer programming** ,Go for MS In foreign countries ,like USA,GERMANY etcs,There are many core companies there.
- If You Completed Your BE/BTECH IN CS/IT AND YOU ARE VERY MUCH INTERESTED IN COMPUTERS **AND PROGRAMMING AND WANTS YOUR CAREER SOAR VERY HIGH OR YOU DID BE/BTECH IN NON CS/IT BUT STILL U ARE INTERESTED IN COMPUTER PROGRAMMING,PLEASE DO LIKE I TELL ,IT IS BETTER U RESIGN FROM WHICHEVER SERVICE BASED COMPANY YOU ARE WORKING** and stay in your home just for 2 years ,and prepare like I tell You,

YOU SHOULD GET OUT OF THESE SERVICE BASED SHOPS AS SOON AS YOU CAN.

So what are these product based companies?

Product based are the actual software companies ,Which Develops a product ,For user Through the usage of computer algorithms and other advanced technologies ,By employing skillfull software engineers

Why only Product based?

- ***Pay is between 12–40 lakhs per annum***
- You work IN **cutting edge technologies**
- Career ***growth is tremendous here***
- You are **treated as valuable person by the company**
- **You will get to work In company Headquarters ,often known as silicon valley,where heavy projects happen**
- Very Flexible timings ,You don't have any mandatory time window like compulsorily staying in service based shops for 9 to 9.5 hours,You can come anytime and go anytime,What matters is whether You completed Your work or not.
- ***OTHER amenities like FREE FOOD ,(YES YOU GET IT RIGHT),THREE TIMES A DAY,FREE TRANSPORTATION,AND MANY OTHER AMENITIES***
- Name of such companies:

Whichever company is famous in Internet like

GOOGLE,FACEBOOK,MICROSOFT,AMAZON,FLIPKART UBER,OLA ,ETC ETC

Software Product based start ups like

Rubrik,quora,dropbox,pinterest,instagram,scale,airbnb etc etc

High Frequency trading companies like **TOWER RESEARCH,JANE STREET,HUDSON RIVER TRADING,JUMP TRADING ETC ETC**

These are the places where a software engineering graduate Or any graduate with an avid interest in Computer programming ,should apply,What all You should do

[CareerHigh - Building Better Career](#)

1) <https://github.com/lnishan/aweso...>

2) <http://sportprogramming.blogspot...>

3) <http://students.info.uaic.ro/~pa...>

24. [Getting Started with the Sport of Programming](#)

25. [Learn to Code by Competitive Programming | HackerEarth Blog](#)

Online Video Course materials:

1)**Coursera/Tim Roughgarden** <https://www.coursera.org/special...>

2) <https://ocw.mit.edu/courses/elec...>

3)<https://ocw.mit.edu/courses/elec...>

4)<https://ocw.mit.edu/courses/elec...>

5)<https://www.youtube.com/channel/...>

tushar roy coding made simple

6)There are also many many other youtube videos as gaurav sen,rachit jain ,please type in youtube all these two names you will also get lots of others as well ,,,,Now from where do you study the list of algorithms and data structures,Here are the list

1)<https://discuss.codechef.com/que...>

2)<http://web.stanford.edu/class/cs...>

3)<https://www.topcoder.com/communi...>

4)<http://e-maxx.ru/algo/> :THIS IS A MUST EVERYDAY

5)<https://cp-algorithms.com/>

6) HACKEREARTH CODEMONK SERIES FOR NOTES EVERYDAY:

<https://www.hackerearth.com/prac...>

7)<https://github.com/ADJA/algos>

8)<https://discuss.codechef.com/que...>

9) Good Blog Post Resources about Algorithm and Data Structures - Codeforces <https://codeforces.com/blog/entr...>

Please refer to that INISHAN AWESOME COMPETITIVE PROGRAMMING IMPLEMENTATION PART, Great university students have implemented algorithms in the optimistic way, YOU SHOULD OFTEN REFER TO IT

in facebook there is a page called PAG -IIT ROORKEE ,if you are in facebook, You must refer this page very very often

<https://www.facebook.com/sdspag/>

<http://codeforces.com/blog/entry...> [Tutorial] dsu on tree

<http://codeforces.com/blog/entry...> SPOJ Jolly Kingdom (Minimum Vertex Cover?)

<http://codeforces.com/blog/entry...> Why so mainstream? the spinoff

<http://codeforces.com/blog/entry...> Tutorial on FFT — The tough made simple.

<http://codeforces.com/blog/entry...> Finding Bridges Tutorial

<http://codeforces.com/blog/entry...> Faster Dijkstra on Special Graphs [Tutorial]

<http://codeforces.com/blog/entry...> LIS on Pairs ??

<http://codeforces.com/blog/entry/43230> Mo's Algorithm on Trees [Tutorial]

<http://codeforces.com/blog/entry/9204> K-TH QUERY

<http://codeforces.com/blog/entry/23554> Smallest Enclosing Circle/Sphere Problem

<http://codeforces.com/blog/entry/23365> Short modular inverse

<http://codeforces.com/blog/entry/16780> Suffix tree. Ukkonen's algorithm

<http://codeforces.com/blog/entry/23005> SQRT decomposition

<https://codeforces.com/blog/entr...>

<http://codeforces.com/blog/entry/23365> Short modular inverse

<http://codeforces.com/blog/entry/16780> Suffix tree. Ukkonen's algorithm

<http://codeforces.com/blog/entry/23005> SQRT decomposition

<http://codeforces.com/blog/entry/22811> Dominator Tree [Tutorial]

<http://codeforces.com/blog/entry/11080> C++ STL: Policy based data structures

<http://codeforces.com/blog/entry/20489> What's slower than a segment tree and needs some more space to be free ?

<http://codeforces.com/blog/entry/22420> On suffix automaton (and tree)

<http://codeforces.com/blog/entry/22072> Heavy-light decomposition implementation

<http://codeforces.com/blog/entry/20935> DP on Trees Tutorial

<http://codeforces.com/blog/entry/18051> Efficient and easy segment trees

<http://codeforces.com/blog/entry/12233> suffix array related problems

<http://codeforces.com/blog/entry/20861> A short guide to suffix automata

<http://codeforces.com/blog/entry/20383> September Clash 2015

<http://codeforces.com/blog/entry/20377> How to sweep like a Sir

<http://codeforces.com/blog/entry/20357> Nim Game and Grundy Number

<http://codeforces.com/blog/entry/11369> Competitive programming (mini)group

<http://codeforces.com/blog/entry/19193> A bit more about palindromes

<http://codeforces.com/blog/entry/18459> Hungarian algorithm

<http://codeforces.com/blog/entry/18462> Splay tree and its implementation.

<http://codeforces.com/blog/entry/18016> ACM-ICPC World Finals Problems Solutions

<http://codeforces.com/blog/entry...> Suffix tree that is two times shorter than Ukkonen's algorithm?

<http://codeforces.com/blog/entry...> Extremal Triangles

<http://codeforces.com/blog/entry/8989> Sieve Methods : Prime, Divisor, Euler Phi etc.

<http://codeforces.com/blog/entry/12709> 'Algos' algorithm collection

<http://codeforces.com/blog/entry/16890> Most valuable problems list

<http://codeforces.com/blog/entry/14798> A collection of my problems

<http://codeforces.com/blog/entry/11148> Treaps

<http://codeforces.com/blog/entry/11279> Saving Dwarfs , Finding LCA , Functions

<http://codeforces.com/blog/entry/7372> Minimum Diameter Spanning Tree

<http://codeforces.com/blog/entry/8762> String Algorithms

<http://codeforces.com/blog/entry...> Algorithm Gym :: Data structures

<http://codeforces.com/blog/entry/10124> C++11 for programming contests...

<http://codeforces.com/blog/entry/15643> C++ Tricks

<http://codeforces.com/blog/entry/3781> Partially Ordered Sets

<http://codeforces.com/blog/entry/10345> Enumeration of combinatorial sequences

<http://codeforces.com/blog/entry/11441> Geometry shrink trick

<http://codeforces.com/blog/entry/12280> Obtaining suffix array from suffix automaton

<http://codeforces.com/blog/entry/11275> About ordered set

<http://codeforces.com/blog/entry/15296> Dynamic connectivity problem

<http://codeforces.com/blog/entry/14854> Aho-Corasick algorithm. Construction

<http://codeforces.com/blog/entry/12488> Tutorial on Heavy Light Decomposition + Problems

<http://codeforces.com/blog/entry/12512> Some help with using Balanced Binary Trees instead of Segment Trees

<http://codeforces.com/blog/entry/12579> Heavy-light decomposition

<http://codeforces.com/blog/entry/14765> Generalized Suffix Tree

<http://codeforces.com/blog/entry/14744> Understanding Fast Fourier Transform

<http://codeforces.com/blog/entry/12239> Heavy-light decomposition — it can be simple!

<http://codeforces.com/blog/entry/8219> Dynamic Programming Optimizations

<http://codeforces.com/blog/entry/325> Dynamic Programming Type

<http://codeforces.com/blog/entry/3767> Cartesian tree

<http://codeforces.com/blog/entry/11337> Suffix tree. Basics. Building in $O(n \log n)$

<http://codeforces.com/blog/entry/13218> Skip-list

<http://codeforces.com/blog/entry/14044> link-cut tree

<http://codeforces.com/blog/entry/...> Palindromic tree: behind the scenes

<http://codeforces.com/blog/entry/...> Palindromic tree

<http://codeforces.com/blog/entry/...> Implicit cartesian tree in GNU C++ STL.

<http://codeforces.com/blog/entry/4898> Anti-hash test.

<http://codeforces.com/blog/entry/...> Nim (Algorithmic Game)

<http://codeforces.com/blog/entry/...> Good Blog Post Resources about Algorithm and Data Structure

<http://codeforces.com/blog/entry/...> Algorithm Gym :: Everything About Segment Trees

The above mentioned blogs are advance algorithms

<https://www.codechef.com/certifi...>

<https://threads-iiith.quora.com/>

Must needed books as a side reference:

Maths chapter needed:

- [Mathematics for Computer Science](#)
- [Number Theory and Modular Arithmetic](#)
- [Number Theory - 1 - Prateek Garg](#)
- [Number Theory - II - Tanmay Chaudhari](#)

1. [algo.is](#) is a competitive programming course taught by [Bjarki Ágúst Guðmundsson](#) also known as SuprDewd ([via Codeforces](#)) and Tómas Ken Magnússon. The used programming language is C++. The website includes an online judge. The material is also available on [GitHub](#).

2. [CSE 232: Programming Skills Workshop](#) taught by Brett Olsen.

3. [CSE 390 B, ACM Programming Contest Prep](#) by Marty Stepp.

Notes for competitive programming

1. [Codility lessons](#)

2. [Tutorials on Topcoder](#)

3. [Getting started with the sport of competitive programming](#) – Notes by Triveni Mahatha. A copy of this document can be found [here](#).

4. [Stanford University ACM Team Notebook \(2013-14\)](#) contains C++ implementations for several algorithms.

5. [Alex's Anthology of Algorithms: Common Code for Contests in Concise C++](#) written by [Alex Li](#).

6. [The Hitchhiker's Guide to the Programming Contests](#) is a pdf document that contains several implementations of algorithms in C++.

7. [Notes for the Cornell ACM ICPC Team](#) written by Igor Naverniouk and Frank Chu.

8. [Seoul National University rand\(\).teamnote](#) – Notes by Heon Young Yeom et al. containing C++ implementations for several algorithms.

Book For Referance

1)CLRS BY THOMAS CORMEN

2)Steven halim competitive programming book CP

3)<https://cses.fi/book/book.pdf>

4)Mark allen weiss algorithm book

5)Eva tardos book on algorithms and data structures

6)ICPC hitchiker Guide to programming contests

7)Kenneth rosen discrete mathematics book

Studying all this ,You need to practise in

<https://www.codechef.com/>

<https://codeforces.com/>

<https://icpcarchive.ecs.baylor.edu/>

THE ABOVE MENTIONED PLATFORMS ARE CALLED **ONLINE JUDGES**,THERE ARE MANY ONLINE JUDGES,BUT THESE ARE DOING GREAT NOW,YOU CAN FIND ALL THE TOP RANKING PROGRAMMERS WHO ARE VERY ACTIVE HERE,WHEREIN WHICH YOU WILL KNOW CLEARLY HOW MUCH YOUR COLLEGE IS ACTUALLY FOOLING YOU,WHERE PLACEMENT WITH SERVICE BASED SHOPS HAPPEN

You should participate in

<https://codingcompetitions.withg...>:Google Kickstart

<https://www.thinkwithgoogle.com/...> :Google APAC

FACEBOOK HACKER CUP

You should participate regularly In codechef,Codeforces,and besides this,You should open an account in Linkedin and an account in github [Build software better, together](#) ,You need To open an account in Both ,And need to keep updating Your rating in THE ABOVE MENTIONED ONLINE JUDGES, into your linkedin profile,The Higher your rating,The proficient you become,apart from this you need to do two more things and need to update in your **RESUME,YOUR GITHUB PROFILE,YOUR LINKEDIN**

- You need to do some **projects on any current technology like android,big data,machine learning ,deep learning,bit coin,data mining ,AND UPDATE ABOUT THIS PROJECT IN YOUR GITHUB ACCOUNT,YOUR LINKEDIN PROFILE,YOUR RESUME,THIS IS AS MANDATORY AS PARTICIPATING IN ANY ONLINE JUDGE,PLEASE REMEMBER THIS POINT AS WELL**
- Your resume **should speak about projects on any current technologies ,It is better to do 2 to 3 projects on the above mentioned topics + your strong problem solving skills in online Judges ,can get You a job in super tech companies**

- There is one more subject called system design ,You need to **focus on this subject as well** <https://www.interviewbit.com/cou...> Interviewer often asks questions on this subject also.

Update **both Your project and your rating in Your LINKEDIN PROFILE AND RESUME**

Must refer Websites For Interview

<https://www.geeksforgeeks.org/>

<https://www.careercup.com/>

<https://www.interviewbit.com/>

If You Do this BY sitting at home just for 2 years ,You can get into one such great companies ,Where IIT ,IIITians,And other great College students Work,If you are working In one Service based shops,Please Introspect your life,The so called service based shops ,which you thought ,is going to make you a Software ENGINEER ,Is only only Going to use you for **MERE DATA ENTRY SUPPORT WORKS,YOU STUDIED ENGINEERING,IT IS A DISRESPECT ON YOUR OWN SELF ESTEEM AND YOUR SELF RESPECT ,IF YOU ARE WORKING IN ONE SUCH SERVICE BASED SHOPS,JUST THINK ONCE ,WILL A DOCTOR DO THE WORK OF A COMPOUNDER?WHY SHOULD AN ENGINEER DO THESE CLERICAL JOBS,THESE COMPANIES KNOW THAT FOR PERFORMING THESE DATA ENTRY WORKS,ANY LITERATE IS ENOUGH,THAT TOO ENGLISH SPEAKING CLERK IS ENOUGH,SO WHY SALARY IS DEAD LOW,THE SALARY WHICH IS YOU ARE GETTING PER YEAR ,IS THE MONTHLY SALARY OF A FRESH GRADUATE WORKING IN TOP PRODUCT BASED,DO YOU THINK BY WASTING YOUR TIME IN THESE SHOPS (I MEAN SERVICE BASED),DOING NOTHING WITH RESPECT TO YOUR CAREER,YOU CAN JUMP TO SOFTWARE BASED FIRM??MY UTMOST SUGGESTION** would be ,to quit these shops,if you are are an employee ,and stay in house for 2 years and do like is written above ,Product based companies take your project works as your experience ,and they dont care about breaks all,IF YOU ARE SKILLFULL,YOU CAN EASILY GET JOB IN ONE SUCH FIRMS

Other must read quora questionS

[Khalid Jamal Abdalnasser's answer to What basic data structures and algorithms should one learn before starting competitive programming?](#)

[What are the "must know" graph algorithms for a competitive programmer?](#)

[What are the best books on algorithms and data structures?](#)

<https://www.quora.com/What-basic...>

<https://www.quora.com/What-are-t...>

PLEASE WATCH ONLY THE FIRST 30 MINUTES OF THE below attached VIDEO,Dont watch after that ,as In this video the truth of service based companies is absolutely spoken.Please stop watching this video after that,as This is the only video which I found Where this man boldly speaks about the exact truth of service based companies.That is why I have pasted this video.please skip this video after the first 30 minutes.

IF YOU ARE THIS YEAR PASS OUT ENGINEERING STUDENT ,WHO GOT PLACED IN ONE SUCH SERVICE BASED SHOPS,BUT STILL DID NOT GET CALL,CONSIDER YOURSELF VERY VERY LUCKY,AND START PREPARING IMMEDIATELY LIKE IS WRITTEN,DONT EVER EVER JOIN THESE SHOPS,If you have siblings ,who are in school or in college ,,PLEASE WATCH THE BELOW GIVEN VIDEO

3,086 views · [59 upvotes](#) · [Posted Dec 4](#)

[You upvoted this](#)

[Upvote- 5859](#)

[Downvote](#)

[Recommended](#)[All](#)



[Comment](#)



Ezio Auditore Da Firenze

[1h ago](#)

wow. thanks a lot. it really takes a lotta effort and zeal to write that huge...we're really thankful to burst some myths out there...many thanks.....

[Reply](#)



Ezio Auditore Da Firenze

Just now

thanks for stepping up & showing the truth behind this. we all are proud of you, me especially. it takes a lot of courage to write such a thing. Many thanks, my friend...

Reply