

### December 28 2023

✓ Created two components in my personal project called DocGPT namely Input.tsx and Button.tsx. I created a component from scratch for the first time. Also, I learned how to render a component.

Not only that I introduced myself react router and react-router-dom. I routed few pages using the same.

✓ I standardized my controller functions called signUpUser and loginUser. I added more descriptive status code and code description in the codebase.

### December 29 2023

I didn't make any progress in my app today. I struggled a lot to understand Context API and after working whole day I started understanding it little. I watched a video by JavaScript Mastery on building Google clone using RapidAPI's Google API.

### December 30 2023

I made progress in my app. I implemented AuthContext provider in my app. I implemented loginUser() in api-communicator.js which post data to J/login and returns the received data. The data is then added into the context which can be used by components.

### December 31 2023

Today, since it was Sunday I decided to take some time off programming and learn something else so I started studying Mathematical Logic in Discrete Maths.

I learned about -

1. Proposition(Statements).
2. Connectives(AND $\wedge$ , OR $\vee$ , Single Implication $\rightarrow$   
Double Implication  $\longleftrightarrow$  ).
3. Modifiers(NOT)
4. Contradiction, Satisfiable, Tautology,Contingency

I tried few hours to study work on my AuthContext Provider bug but I couldn't solve it. I will try solving it tomorrow.

### January 1 2024.

I spent my whole day today doing nothing. I ended my day watching a tutorial on Database. I learned following concepts

1. What are the problems related to the file system that we use database? Atomicity, Integrity, concurrent-access anomalies, Consistency
2. Instance and Schema
3. Database Language like Data Manipulation Language and Data Definition Language
4. Architecture of Database (Query Processor & Storage Manager)
5. Views of Database(physical,logical,and view)

### January 2, 2024

I tried solving few problems in Leetcode:

1. Finding  $\sqrt{n}$
2. Finding nth root of s number
3. Koko Eating Bananas

I made progress in my DocGPT app. I resolved my AuthContext error. Now I am working on the verification system.

### **January 3, 2024**

I woke up @10:00 am today. I solved a very interesting problem related to Binary Search called Minimum number of days required to form M bouquets.

I had to find min and Max value in the array. Loop through those values one by one and find minimum days. The count variable should be initialised.

I went ahead and implemented token authentication code. It needs revisit though.

### **January 4 2023**

I solved a very interesting problem today. It was called, well ... I don't remember the name of the problem.

Anyway... I created a new component in my app called DocGPT called Newchat.tsx  
It was a very little progress. I need to speed up a little bit.

### **January 5 2023**

I solved a problem called Minimum weight to ship all packages in D days. I basically had to calculate max weight in the array and sum of all weight in the array. Iterate through the range and find total days to ship all weights. If the total days is less or equal to given days that will be the answer.

I created bunch of Components for my app tomorrow I am going to style those components.

### **January 6 2023**

I tried solving two problems Aggressive Cows and Book Allocation problem - both, medium level binary search Leetcode problem. I came up with an approach to solve the Aggressive cow problem but couldn't code it. I couldn't even come up with a solution for second problem. I marked them both to revisit.

### **January 9 2023**

I got early in the morning probably at 5 am in the morning and just when I was thinking about working on a Leetcode problem I remembered about a PR I was working on. It was a PR in a project called BioDrop where I was implementing a feature where user could export their QR code as a wallpaper. I used a library called html-to-image to solve the issue.

Before sleeping, I decided to get a green square on Leetcode. I basically tried solving 2D Array Search.

### **January 10 2023**

I worked on setting up Rocket.chat repo along with Apps-engine and Whiteboard.

### **January 11 2023**

I solved a problem called Remove Outermost parenthesis. I used stack however optimised solution doesn't require stack. I have now started solving strings problem.

### **January 12 2023**

I solved bunch of string problems. Worked a little bit on my app. Did research on python.

### **January 13 2023**

I again solved string problems. I will solve bit manipulation from tomorrow.

### **January 14 2024 to January 17 2024**

I didn't work much on anything during this time. It was Pongal leave and I regret not working on anything. I spent my entire time on instagram scrolling through senseless reels and discord talking with random strangers. Anyways, I need to get back on track from tomorrow and work towards my goal.

### **January 18 2023**

I studied about why React component doesn't render two or more than two adjacent elements with encapsulating it into an enclosing tag.

Created a modal in my app that appears and disappear on a button click.

Tried solving few problems on DSA but couldn't because my head was aching super bad.

January 22 2024

I woke up late probably at 11:00am. I wasted my entire day. I discovered a blog post about a person sharing their journey and experience in LFX graduation. I went through the blog and discovered value insights. Upon pulling out CNCF/mentoring repo, I discovered few projects that will apply for LFX like Cilium, Jaeger, Vitess and Knative Event Handling.

I have embarked on a journey now to learn Go programming language. It is widely used in Cloud Native application. I finished learning basics like variables, constants, data types, keywords, functions, arrays, slices, struct , etc.

I also delved a little bit deeper into functions and tried understanding advanced concepts involved around functions.

### **January 29 2024**

Since January 22 I have been learning Go programming language. I have successfully completed learning chapters like Variables, Function, Pointers, Type, Methods, Interface, Structs, Arrays, Slices, Maps, etc.

I am learning about packages and modules in Go.

### **February 1**

I am taking a huge decision today not applying to LFX Mentorship for Term 1. We have Google Summer of Code and MLH Fellowship coming up.

I have spent the last 9 to 10 days learning Go Programming language and covered almost all the concepts from variables to concurrency. To be able to work on a production grade project I realised I will have to spend a lot of time digging deeper into Go and DevOps. If I spend that time in JS which I already have been doing for the past few years it will increase my chances in GSoC and MLH.

I have no idea how the decision will result.

### **February 2 2024**

DSA: I have started solving Recursive problems. Today I solved a problem called Generate Parentheses. It requires thinking recursively. A condition for left and right recursive to proceed and also backtracking.

I also started revising HTML today and will continue to do it for the upcoming 2 weeks until Feb 14.

Today I learned:

1. What is HTML?
2. What are HTML elements, tags, & attributes?
3. What is a DOCTYPE declaration? How different DOCTYPE declarations are made to specify different versions of HTML?
4. What is a HTML tag? What attributes go along with it?
5. What is a meta tag? What attributes go along with the meta tag?

### **February 3**

DSA: I didn't solve any problem today. My brain is completely fucked to be honest. If it continues, I will never work at world's largest companies. I need to change myself.

At around 11:00 our wifi stopped working so I slept. Turns out someone unplugged the ethernet wire. I wasted my entire day after that.

### **August 6 2024**

I have decided to learn Bit Manipulation. I learned about decimal to binary conversion and vice versa.