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**Summary**

Early Experienced software engineer having fair programming skills and keen in **cross platforms application development** and have **good problem solving** capabilities. I have published **4 research papers in B.Tech**. Has **qualified** both **GATE 2021 and 2022** exams . Also taught **competitive programming** basics in a YouTube channel for self interest. Currently a **5 star coder at Codechef** and aiming to learn something at my best always , keeping up my **quick learning** ability. My **native** languages are **Hindi, English**

**and Bengali**

**Experience**

**Siemens Healthineers, Bangalore [Dec 2021-Jun 2022] [ :: Resigned to give full time for a short span to improve my skills and strengthen concepts :: ]** Worked as a software developer in the techstacks: Angular 7, ASP.NET [Core and MVC] , gained

idea about PET SPECT Scanners and several processing of scanned images .

[**Project** : Worked on community project [used Angular 7 as frontend framework and ASP.NET in backend for developing a unique platform for the department employees to showcase and keep on updating their skills , display skill matrix , and rating on skills and also common requirements like current projects assigned and tasks working on.

Also worked on C# based team **project** for debugging and adding new features in PET scanned image analysis]

**Tech Data Solution, Kolkata**

Worked as an intern in projects . [ Project: Developed an endpoint for securely applying CRUD operations on bank details of customers in SpringBoot maintaining proper access policies and securities , implemented builder pattern for user and tenant detailed data manipulations]

**Education**

**West Bengal Board of Secondary Education (Patha Bhavan School) , 2001-2013**

Secured Marks in Class-X Examination: 89.5 %

**West Bengal Board of Higher Secondary Education (Patha Bhavan School) , 2013-2015** Secured Marks in Class-XII Examination: 79 %

**St.Thomas' College of Engineering & Technology 122**

Bachelor of Technology (BTech), **Computer Science Engineering**, 2017 – 2021

**Secured DGPA(Degree GPA) : 8.24**

**Vellore Institute of Technology**

(I was admitted to VIT/Vellore in the year 2015 in the electrical and electronics(EEE) branch. But due to extreme passion in computer science subjects I left VIT in 2017 and continued my studies at St. Thomas College of Engineering and Technology in computer science branch from 2017.)

**Indian Institute of Technology(ISM) Dhanbad**

Master of technology (August 2021-December 2021) [Left the course without completion]

**Few among the various Projects I worked on :**

**1. Road network identification from aerial imagery**

A new optimized and accurate technique to identify roads from satellite.

1. **An optimized way of designing a new shortest distance algorithm in graph theory**
2. **Video Completion based Scoring system**

Built in Node JS and with app write api and used bootstrap 3 and JQuery, Ajax in the same.

1. **Employee banking information system in SpringBootApplication Java**

Learnt about builder and delegate design patterns in the same.

**5. Building chatbot through notifying system for new post on a discourse channel in Node JS**

[ Also in several projects learnt about algolia search system and google console api usages, AWS console, CI/CD pipeline (Jenkins / Bitbucket) ]

**6. FFT polynomial multiplication calculator**

[ Developed in Angular and implemented FFT polynomial and used Angular service and router ]

**7. Gaussian elimination based order 3,4 equation solve in mini web service**

[ Built in Golang and built and deployed on Docker ]

1. **XMPP and WebSocket based backend chat server and Meeting App in frontend SwiftUI IOS**

[Built backend in Node JS with simple-xmpp and socket-io module and frontend in SwiftUI for iOS.

1. **Basic Microservice deployment using ASP.NET and docker-compose**
2. **Cloning of Spring.io Initializr for local use**
3. **Using of Redis Cache to optimize API connection performance , using of Redis broker in Elastic Stack based project between Beans and LogStash**
4. **Developing GraphQL-Node JS based basic applications**

**Certifications**

* **Big data analytics including Hadoop and R-Language [from:**

IBM (TIFAC CORE VIT) ]

* **Android Development** – IBM(TIFAC CORE VIT)
* **Web Development**(TCS iON LifeLong Learning)
* **Problem Solving Certificates** (HackerRank)
* **Codechef DSA Certification** (CodeChef)
* **Udemy Certification -** ASP.NET Core and MVC**,** Blockchain technology, Quantum computing, Machine learning and Deep Learning, GraphQL

**Honors & Awards**

* **International challenge on databases** - Hackerearth (Mar 2017) - Stood in Top 100 Runners (Rank:65)
* **Indiahacks Programming 2017** - Hackerearth (Jun 2017) - Selected in pre-finals Indiahacks programming 2017.
* **Bengalathon finalist** - West Bengal Government
* **Codigo Stcet Techfest** (May 2019) - Stood 2nd in Codigo finals.
* **GATE 2022** ( Scored Percentile 97% )
* **Advanced Trends in algorithm** (Jun 2019) - Stood 1st in Coding competition
* **Google Code Jam** – Google (Apr 2020) - Qualified the Qualification round .
* **College coding contest hackathon** (Mar 2020) - Stood 1st in whole 3rd year two times consecutively.
* **ISI Kolkata M.tech.-CS Entrance exam** AIR-56
* **Best Paper Award**

CIPR 2020 Conference [Springer]

**Publications ( Conference ):**

1. Human Emotion Recognition through audio features using deep learning techniques.
2. Automatic Linguistic Detection through machine learning techniques from audio/speech
3. Support Vector Machine Kernel Function comparison on mathematical point of views and in practical applications through Support vector classifier
4. Introducing U-LSTM as upgraded lstm with added gates and implementing on emotion detection from human audio speech.

**Tech Skills in Computer Science**

* Computational Problem Solving

**[Advanced]**

* Data structure and algorithms **[Advanced]**
* C **[Advanced]**
* C++ 17 **[Advanced]**
* Java **[Intermediate]** (SpringBoot Web Bckend Web Framework )
* Python (with microframeworks [Flask,Quart] and frameworks [DJango]

**[Fair confident]**

* PHP **[Built self projects in the beginning]**
* HTML **[Advanced]**
* Javascript and JQuery and Ajax

**[Advanced]**

* Node js and Express JS **[Confident]**
* Database Management System (DBMS) (SQL,MySQL,Redis,MongoDB,postgresql ) [**Advanced]**,
* Machine Learning and Deep learning

**[Basics]**

* Angular **[Advanced]**
* React **[Basics]**
* Golang programming language [**Intermediate]**
* Git commands and configs [**Advanced]** ,
* ASP.NET and C# **[Basics-Intermediate]**
* Docker **[Confident]**
* Jenkins **[Confident]**
* Blockchain Technology **[Beginner]**
* Quantum Computing **[Beginner]**