# AMOL MATHUR

## FULL STACK DEVELOPER

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## CONTACT

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## EDUCATION

**BVCOE, IP UNIVERSITY**
B.Tech in Computer Science
2017-2021 | Delhi

**DELHI PUBLIC SCHOOL**
Grade XII
Grad. May 2017 | Noida, UP

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## TECHNICAL SKILLS

ReactJS | Redux | Micro-frontends
ElectronJS | React Native
Go | Redis | RabbitMQ | MySQL
MongoDB | Python | NodeJS

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## RESEARCH

'A novel method for Hostility Management' in Springer Journal

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## LANGUAGES

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| **ENGLISH** | Native or Bilingual Proficiency |
| **HINDI** | Native or Bilingual Proficiency |
| **JAPANESE** | Professional Working Proficiency |
| **FRENCH** | Limited Working Proficiency |
| **CHINESE** | Limited Working Proficiency |

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## KEEN INTERESTS

- Data Structures and Algorithms
- System Design
- Concurrency & Parallelism
- Machine Learning and Deep Learning
- Advancements in Computer Hardware

## WORK EXPERIENCE

SUPER SIX SPORTS GAMING                January 2023 - Present
### Backend Developer

- Developed a scalable micro-service to serve content for the newly launched **Vusport** App, enhancing performance and responsiveness.
- Revamped **Fantasy Akhada** Leaderboard. Achieved significant SLA reduction from 2.5 minutes to less than a second, while optimizing concurrency handling for improved user experience.
- Implemented backend logic for an under-development commercial fantasy sports platform **FantasyPaedia**, enabling score calculations and real-time leaderboard updates for millions of users.
- Currently building an in-house **Feed Engine** to collect and process sports match data from around the globe, with the aim of supporting various applications and future partnerships.

AIRTEL X LABS                June 2021 - January 2023
### Full Stack Developer

- Led end-to-end development of two frontend projects from their inception, leveraging React to deliver high-quality user interfaces, including the implementation of micro frontends to enhance modularity and scalability.
- Developed efficient scripts using Go to handle heavy bulk processing of requests, resulting in a significant reduction in average processing time from 45 minutes to under 2 minutes for over 100 million requests.

## PROJECTS

### Chat App

React JS, Electron JS, Redux, Node, Go, KeyDB, Socket.IO, MongoDB

- Developed a robust Chat App using ElectronJS and React. Users can communicate in private chats or in lobbies of up-to 10 people.
- Implemented version 1 of the application with a socket based Node back-end, leveraging MongoDB for secure storage of user data and chat logs.
- In the version 2, developed a socket-based Go backend that utilized KeyDB (a multi-threaded fork of Redis) Pub/Sub mechanism for efficient message broadcasting. Messages were sent to the frontend by one consumer while another stored them in the database, ensuring reliable and real-time message updates.

### Movie Recommender System

ReactJS, Flask, NLP

- Developed a sophisticated React Web App that leverages Hybrid Filtering techniques to generate adaptive movie recommendations tailored to users' interests.
- Conducted web scraping on IMDB.com to generate a comprehensive movie database, ensuring a diverse and up-to-date collection of movies for recommendation.
- Implemented Sentiment Analysis on movie reviews, enhancing the recommendation engine by considering user sentiment and feedback.
- Authored and published a research article on 'Hybrid Filtering' as a significant contribution to the field of movie recommendation systems, demonstrating strong research and academic capabilities during the completion of your Btech Final Year Project.