

# Mohd Umar

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## Skills

**Languages** C++, Java, Javascript/Typescript, HTML, CSS, Python, SQL  
**Libraries** React.js, Tailwind CSS, Antd  
**Frame Works** NextJs, Spring Boot  
**Tools** Git, Bitbucket, Eclipse, Visual Studio  
**Others** DSA, OOPS, Problem Solving

## Experience

### Elyxr AI

Sep 2022 – Present

Software Development Engineer 1 (Full Stack)

#### Elyxr Control Tower

- Implemented WebSocket communication to enable real-time, bidirectional data transfer, enhancing user experience by providing instant updates.
- Reduced pipeline build time by integrating SWC, achieving 3x faster Fast Refresh and 5x faster builds in Next.js.
- Maintained a short feedback loop with stakeholders, resulting in 10 percent faster project iterations.

#### Elyxr Trace

- Made critical design and development decisions that optimized loading time by 10 percent and minimized re-renders, contributing to a seamless user experience.
- Led the implementation of the login flow and managed features such as key generation.
- Created 10+ reusable components as part of a larger component library, facilitating cross-team collaboration and reducing redundancy by 30 percent.
- Used the React module react-leaflet for real-time insights, and designed a timeline view and map view for obtaining live shipment data.

#### Elyxr Freight

- Worked on understanding and contributing to a large codebase
- Built custom re-usable components compatible with React and Chakra UI
- Design and Implemented a two-level KYC approval process in the customer onboarding feature to enhance compliance and streamline verification.

### Cognizant

Feb 2022 – July 2022

Programmer Analyst (JFSD)

- Designed and developed an interactive web application utilizing Spring Boot and Angular, gaining valuable insights into data flow and proficient execution of CRUD operations.
- Demonstrated proficiency in full-stack development, combining Spring Boot for backend functionality and React for a responsive front-end, showcasing a holistic skill set.

## Education

### VIT VELLORE

BTech (Computer Science and Engineering)

July 2018 – May 2022

CGPA: 8.53

### Certifications

- Data Analysis with python - Coursera
- Java Programming (UDEMY) - Learned OOP concepts, Spring Boot basics.

## Projects

### PHARMACY MANAGEMENT SYSTEM

May 2022 – July 2022

- Created an online web platform to streamline pharmaceutical operations, inventory control, and prescription management.
- constructed modules for medication dispensing, billing, and prescription management.

### ADVANCING AND INNOVATING THE ROUND ROBIN ALGORITHM

July 2020 – Sep 2020

- The algorithm calculates the time quantum dynamically based on the burst time of all processes, resulting in an average performance improvement of 30-40 percent over traditional scheduling methods.
- It aims to determine an optimal time quantum for all processes to improve performance compared to first-come-first-served (FCFS), round-robin (RR), and shortest job first (SJF) scheduling algorithms.

### FOOD WASTE CONTROL

Jan 2019 – Mar 2019

- Developed an innovative solution, partnering with restaurant and mess owners, aimed at redistributing surplus food to those in need. This initiative aimed to curtail both food wastage and financial losses, addressing critical societal needs.