

# Syed Abid Ahmed

Chennai, Tamil Nadu

+91-9345754391 • syedabid.ah30@gmail.com • [LinkedIn](#) • [Github](#) • [Leetcode](#) • [Portfolio](#)

## Executive Summary

Full-stack developer skilled in building scalable web applications using **React, Node.js, Express, PostgreSQL (Drizzle ORM), and MongoDB**. Strong foundation in **Data Structures & Algorithms** with active competitive programming practice. Experienced in architecting REST APIs, database schema design, performance optimization, and delivering clean, maintainable full-stack systems. Passionate about solving real problems, writing clean code, and building end-to-end products.

## Education

### SRM Institute of Science and Technology

B.Tech - Computer Science Engineering (CSBS)  
CGPA : 9.18/10

Chennai, Tamil Nadu  
May 2027

### Relevant Coursework:

- Data Structures & Algorithms
- Database Management Systems
- Operating Systems
- Computer Networks
- Web Technologies
- Object Oriented Programming
- Business Management
- Business analytics

### Doveton Group of Schools

Senior Secondary (Class 12)  
Percentage: 89%

Chennai, Tamil Nadu  
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## Skills & Interests

### Technical Skills

- **Languages:** JavaScript, C, C++, Python, Java
- **Frontend:** React.js, Tailwind CSS, Responsive UI
- **Backend:** Node.js, Express.js, REST APIs, Drizzle ORM
- **Databases:** PostgreSQL (schema design, indexing, migrations), MongoDB (document modeling, aggregation pipeline), MySQL, Firebase
- **Tools:** Git, GitHub, Postman, Render, Netlify, VS Code
- **Concepts:** SQL Design, NoSQL, JWT Auth, MVC Architecture, Docker, Deployment, API Security
- **DSA:** Active problem solver on LeetCode

## Projects

### URL Shortener

 [Project Link](#)

- Built a full-stack URL shortener supporting custom aliases, expiry links, and click analytics.
- Designed a normalized PostgreSQL schema using **Drizzle ORM** with type-safe migrations.
- Implemented **unique constraints + indexing** to optimize short-code lookups, improving read performance on 10k+ records.
- Developed REST APIs with validation, rate limiting, and collision-safe alias generation.
- Added analytics tracking (click count, referrer, device type, IP logs) using PostgreSQL JSONB fields.
- Previously implemented the same system using **MongoDB**, then migrated to **PostgreSQL** to improve relational integrity, query optimization, and structured analytics — demonstrating database selection based on use case.

### Inventory Management System

- In Development

- Engineering an inventory platform to manage stock levels, sales logs, purchase records, and role-based users.
- Architected relational schema with indexed queries and optimized joins for scalable performance.
- Developing secure REST APIs for stock tracking, transaction history, and low-stock alerts.
- Following modular backend architecture with structured migrations and error handling.