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# Bala Murugan K

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## Profile Summary

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Motivated BCA graduate with a strong foundation in MERN stack development. Skilled in designing and developing responsive web applications using MongoDB, Express.js, React, and Node.js. Passionate about writing clean, efficient code and learning emerging technologies. Eager to contribute to a dynamic team as a Full Stack Developer and build innovative web solutions.

## Projects

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### Billing Management System

- A Billing Management System is a software application designed to automate, manage, and track billing and payment processes for a business, service, or organization.
- It helps in efficiently handling invoices, payments, and financial records while reducing manual errors.
- Built using the MERN stack (MongoDB, Express.js, React, Node.js) for seamless frontend-backend integration. Improved store operations by providing accurate, real-time data management.

Problem Statement: Manual billing and inventory processes in departmental stores cause errors and delays. A digital system is needed to automate billing, manage inventory, and improve operational efficiency.

### Apartment Block Management System

- Developed a full-stack web application for apartment management with role-based dashboards. Tenants can view apartments, bills, and submit maintenance requests, while managers can add apartments, generate bills, and manage maintenance tasks. Implemented real-time updates and a professional, responsive UI with secure hardcoded authentication.

Problem Statement: Managing apartment information, resident details, and maintenance activities manually often leads to confusion, delays, and data mismanagement. A digital system is needed to automate these processes, improve communication, and ensure efficient apartment administration.

### Bill Buddy-Shared Expense & Bill Splitter

- A MERN stack web application that helps users manage and track shared expenses seamlessly. It allows users to split bills, record transactions, and view real-time expense summaries.

Problem Statement: Managing shared expenses among friends, roommates, or team members is often confusing and leads to miscalculations or disputes. People rely on manual tracking (notes or WhatsApp messages), which is error-prone and lacks transparency.

## Technologies and Languages

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- Languages: C, JavaScript, Python, MongoDB, Mongoose
- Frameworks & Libraries: Node.js, Express.js, React.js
- Version Control System: Git and Github

## Education

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BCA, CSI Jayaraj Annapackiam College Arts and Science College

CGPA:7.1/10 (2022-2025)