

# MD. RAMJAN ALI

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## SUMMARY

Detail-oriented Web Developer with experience in building modern, scalable, and user-friendly web applications. Skilled in full-stack development, REST APIs, authentication, and deployment. Passionate about clean code, performance, and continuous learning.

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## SKILLS

- **Technical Skills:**

**Frontend:** HTML5, CSS3, JavaScript, TypeScript, React.js, Redux.js, Next.js, Tailwind CSS

**Backend:** Node.js, Express.js, REST API, JWT Authentication

**Database:** PostgreSQL, MongoDB, Prisma ORM

- **Languages:** English, Bangla

- **Certifications:** Commercial Software Development - JavaScript (**Provider:** iTransition)

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## PROJECTS

### Inventory Management System

<https://inventory-management-kp70.onrender.com/>

**GitHub:** <https://github.com/Romjan-Ali/inventory-management>

A full-featured web-based inventory management application built according to strict academic project requirements, focusing on flexibility, access control, and data integrity.

#### Core Features & Implementation Details:

- Implemented user-defined inventories where creators design custom templates (fields, descriptions, categories, tags)
- Supported **custom item fields** (text, multiline text, numeric, boolean, and link-based document/image fields) with validation and drag-and-drop reordering
- Developed a powerful **custom inventory ID system** with configurable formats (fixed text, random numbers, sequences, dates, GUIDs) and real-time preview
- Enforced database-level uniqueness for custom IDs using composite indexes (inventory + custom ID)
- Built table-based views for inventories and items (no row-level action buttons), using toolbars and contextual actions

#### Access Control & Security:

- Implemented **role-based access control (RBAC)**: admin, creator, write-access user, and read-only users
- Creators manage write access or mark inventories as public for all authenticated users
- Admins have full privileges and can act as inventory owners, including removing their own admin role
- Non-authenticated users can search and view all inventories and items in read-only mode

## User Experience & UI Requirements:

- **Global full-text search** available from the header on all pages
- Inventory pages are organized into tabs: items table, discussion, settings, custom ID configuration, access control, and statistics
- Implemented auto-save for inventory settings with **optimistic locking** to prevent concurrent update conflicts
- Responsive UI with **light/dark theme** support and **multi-language UI** (English + Bangla language)

## Collaboration & Interaction:

- **Real-time discussion system** per inventory with **Markdown support**
- Item-level like system (one like per user per item)
- User profile pages with **sortable/filterable tables** of owned inventories and shared inventories

## Technical Stack & Architecture:

- Frontend: **React.js, TypeScript, Tailwind CSS**
- Backend: **Node.js, Express.js, RESTful APIs**
- Database: **PostgreSQL with Prisma ORM**, optimized queries and optimistic locking
- Authentication: **Social login (Google & GitHub)** with JWT-based session handling
- Deployment: Cloud-based hosting with external storage for images/documents

This project demonstrates strong understanding of **full-stack architecture, database design, concurrency control, security, and complex UI requirements**, while adhering strictly to provided project constraints.

## Travel Buddy

<https://travel-buddy-meetup.onrender.com/>

**GitHub:** <https://github.com/Romjan-Ali/travel-buddy>

Travel Buddy is a full-stack web application designed to help travelers connect, plan trips, and share experiences. Built with modern TypeScript technologies, it provides a seamless platform for travel enthusiasts to discover destinations, coordinate with fellow travelers, and manage their journeys.

- **User Authentication & Roles:** Secure registration and login with email/password. Role-based access control for Users and Admins.
- **Profile Management:** Create and manage user profiles with details like name, bio, travel interests, and profile picture.
- **Travel Plan Management:** Users can create, view, update, and delete their travel plans.
- **Search & Matching:** Find travel buddies based on destination, date, and interests.
- **Review & Rating System:** Leave reviews and ratings for fellow travelers after a trip.
- **Payment Integration:** Subscription plans for premium features. Users cannot create plans, match with others, or view profiles without an active subscription.
- **Admin Dashboard:** Admins can manage users, travel plans, and other content.

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## EDUCATION

**Status:** BBA - Management - Final Year - Continuing

**Institute:** New Model University College, Dhaka

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## SOCIAL LINKS

<https://github.com/Romjan-Ali> • <https://www.linkedin.com/in/romjan001>