

KOUSTAV MONDAL

Full-Stack Software Developer — MERN Stack • Java

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Portfolio — LinkedIn — GitHub

PROFESSIONAL SUMMARY

Entry-level full-stack developer with hands-on experience building and deploying web applications using the MERN ecosystem and Java. Experienced with REST APIs, database integration, authentication, third-party/AI APIs, and responsive interfaces. Strong foundation in OOP, data structures, algorithms, and DBMS. Seeking an entry-level Software Developer, Backend Developer, or Full-Stack Developer role.

TECHNICAL SKILLS

Languages: Java, JavaScript, TypeScript, SQL, C

Full-Stack: MERN Stack (MongoDB, Express.js, React, Node.js)

Frontend: React, HTML5, CSS3, Tailwind CSS, TypeScript

Backend: Node.js, Express.js, REST APIs, JWT

Databases: MongoDB, PostgreSQL, MySQL

Tools: Git, GitHub, Vercel

Core Concepts: OOP, Data Structures & Algorithms, DBMS, RESTful API Design, CRUD

PROJECT EXPERIENCE

UMA — AI Personal Assistant

Live Demo — [GitHub](#)

Tech Stack: JavaScript, React, TypeScript, Tailwind CSS, Gemini API, Node.js, PostgreSQL

- Built an AI-powered personal assistant with conversational responses and real-time interactions.
- Integrated AI model APIs with authentication, chat functionality, and persistent application data.
- Built a responsive React/Tailwind interface with conversation history and account features.

LocalX — Local Exploration Web App

Live Demo — [GitHub](#)

Tech Stack: MongoDB, Express.js, React, Node.js, REST APIs

- Built a MERN-stack application for discovering nearby places and activities through an interactive interface.
- Integrated third-party location APIs with asynchronous data fetching and dynamic frontend rendering.
- Designed reusable, responsive React components for desktop and mobile experiences.

Expense Tracker Application

Live Demo — [GitHub](#)

Tech Stack: Java, MySQL, HTML, CSS, JavaScript

- Developed an expense management application for tracking income and expenses with authenticated CRUD functionality.
- Designed REST APIs and persistent MySQL-backed data storage for financial records.

Intelligent Street Light for Smart City

Tech Stack: ESP8266, ESP32-CAM, Arduino IDE, LDR, IR Sensors

- Designed an IoT-based automated street-lighting system using motion and ambient-light sensing.
- Engineered embedded firmware and sensor integration for real-time environmental response.

CERTIFICATIONS & TRAINING

NodeJS Masterclass — Express.js, MongoDB & OpenAI — Udemy

Java Best Practices for Efficient, Scalable, and Secure Code — Udemy

Industrial Training — Signal & Telecommunication Department — Indian Railways

EDUCATION

B.Tech, Electronics and Communication Engineering — Academy Of Technology — 2022–2026

Higher Secondary — Purnanagar Purnachandra High School, Ranaghat — 2020–2022

Secondary — Krishnagar Dharmachandra High School, Ranaghat — 2019–2020

LANGUAGES

English, Bengali, Hindi