



Rajesh Pal

MERN Stack Developer

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<https://my-personal-portfolio-inky-pi.vercel.app/>

◦ Skills ◦

JavaScript

Strong understanding of ES6+ features, event loop, closures, and asynchronous programming.

ES6, DOM, Async/Await, Closures, Hoisting

React.js

Experience in building dynamic UIs, using hooks, context API, and implementing routing.

Hooks, Context API, React Router, Redux

Node.js

Knowledge of building RESTful APIs, using middleware, authentication, and server-side logic.

Express.js, JWT, Middleware, REST APIs

MongoDB

Ability to design schemas, optimize queries, and perform aggregation operations.

Mongoose, Aggregation, Schema Design

SQL

Basic understanding of relational databases, writing queries, and performing joins.

Queries, Joins

Socket.io

Good knowledge of WebSockets for real-time communication in chat applications.

Profiles

🐙 [rajpuc](#)

🌐 [rajesh-pal25](#)

Summary

Passionate **MERN Stack Developer** with a strong foundation in **JavaScript, React, Node.js, and MongoDB**, eager to build scalable and efficient web applications. Experienced in developing **real-time applications, authentication systems, and RESTful APIs**, with a focus on **performance, security, and user experience**. Skilled in **problem-solving**, having solved **100+ coding challenges** on various online judges. Enthusiastic about **competitive programming, deep learning, and modern web technologies**.

Education

Premier University

Computer Science and Engineering
3.84
BSC
2019-2024

Projects

ChatVerse

A **real-time chat application**, allowing users to create and join chat rooms with instant messaging functionality. Implements **JWT authentication**, message persistence, and WebSocket synchronization for seamless communication.

🔗 <https://github.com/rajpuc/RealTimeChattingApp#chatverse-documents>

Learning Management System (LMS)

A **MERN stack-based Learning Management System** that enables users to **enroll in courses, track progress, and manage educational content**. Features include **user authentication, role-based access (students/instructors/admins), course management, and interactive dashboards**.

🔗 <https://learning-management-system-orcin.vercel.app/>

Taskify

Designed and developed a **full-stack to-do application** with **secure authentication, efficient task organization,**

WebSockets, Event-driven programming

Competitive Programming

Experience in solving 100+ problems on various online judge.

Machine Learning

Basic knowledge of deep learning concepts, CNN, and Transformers using PyTorch.

CNN, Transformers, Python, PyTorch

and user-friendly UI. Implemented **Nodemailer for email verification and password reset functionality**, ensuring a **seamless user experience**.

🔗 <https://github.com/rajpucc/TaskifyTodo>

PlainB

A **modern and fully responsive e-commerce platform** designed to deliver a smooth shopping experience with features like **OTP-based login, shopping cart, wishlist, order management, integrated payment gateway, and advanced product search and filtering**.

🔗 <https://github.com/rajpucc/EcommerceProject?tab=readme-ov-file#-e-commerce-project>

Bengali Image Captioning Model

Built a **Bengali Image Captioning model** using **PyTorch**, leveraging **ResNet152** for visual feature extraction and **Transformer architecture** for generating natural language captions. Employed **BERT Tokenizer** for Bengali text processing and evaluated model performance using the **BLEU Score**. The project bridges computer vision and natural language processing (NLP) in the Bengali language context.

🔗 <https://github.com/rajpucc/BanglaImageCaptioningModel>

References

Syed Md. Minhaz Hossain

Associate Professor, Department of Computer Science and Engineering

Premier University, Chattogram

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🔗 https://cse.puc.ac.bd/Home/Profile?userName=minhaz_cse