HARSH PRATAP SINGH

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Introduction

Expert in developing high-performance full-stack web applications using modern JavaScript(ES6+)/TypeScript ecosystems. Proven expertise in React.js for building responsive, accessible UIs with Tailwind CSS and Framer Motion, coupled with backend proficiency in Node.js, Express, and MongoDB. Specialized in RESTful APIs development, cloud deployment (AWS EC2/S3/Lambda), and implementing secure authentication systems (OAuth 2.0, JWT, Session Management).

Education

J.C. Bose University   *Nov, 2021 – June, 2025*

Technologies

Frontend: TailwindCSS,Framer-Motion,React ans dNext.js

State Management: Redux,Context API

Authentication:JWT,OAuth 2.0,Session,

Programing Languages: Javascript(ES6+), TypeScript, Java, and C programming

Cloud: AWS EC2, AWS S3, AWS Lambda, AWS CloudFront, Linux, Docker

Backend: Node.js, Express.js, PostgreSQL, RESTful APIs,

Version-controlling: Git and Github

Databaese:mongodb,Mongoose

DevOps: CI/CD Pipelines, Nginx..

Projects

DeepLumen

Description: Full-stack MERN-based Deep-Seek, real-time data processing, and seamless user interactions. Achieved 40% faster inference speeds and 95% UI accuracy through optimized React workflows and Redis caching.   *March, 2025*

Role: Engineered a MERN-based Deep Seek clone with Python/Flask AI microservices, implementing Redis-cached real-time processing for 40% faster responses and React-optimized UI achieving 95% accuracy.

Tech Stack: React, Redux, Material-UI, PDF.js, Node.js, Express, MongoDB,

RegalRetail

Description: Full-Stack E-Commerce Shopping Cart Platform using MERN stack. Features: real-time cart sync, payment gateways (Stripe/PayPal), personalized recommendations, and admin analytics dashboard; reduced cart abandonment by 25% and increased checkout conversions by 18%. Deployed on AWS with serverless microservices.   *Feb, 2024*

Role: Engineered event-driven architecture (Node.js/Express) with Redis-backed session management and RabbitMQ for order processing. Developed dynamic React frontend with cart persistence, implemented JWT/OAuth2.0 authentication, and integrated AI-driven recommendation microservice (Python). Scaled MongoDB via sharding to handle 5K+ RPM, achieving 99.8% uptime with AWS ECS/Docker.

Tech Stack: React, Redux Toolkit, Tailwind CSS, Node.js, Express, MongoDB, Redis, RabbitMQ, Stripe API, AWS (ECS, Lambda, S3), Docker, Jest/Cypress.

Profiles

LinkedIn: [Harshpratap](#)   GitHub: [Harshpratap](#)

CERTIFICATION:

Azure AI-900
   Completed the Professional skills certification by Honeywell .   *sept ,2024*

Silver Elite Certification
   Completed the NPTEL Professional certificate program at Education for Introduction to Things of Internet.   *Jan, 2024*

Participation Activities

Engineered an interactive AI demo showcased at SDIET Tech Fest attended by 200+ students, receiving the "Most Innovative Project" award and sparking interest in AI among attendees.