

TECHNICAL SKILLS

- **BACKEND DEVELOPMENT:** Node.js, Express.js, PHP, REST APIs, Sequelize, MySQL
- **FRONT-END DEVELOPMENT:** React.js, Redux (5+ state-managed apps), Next.js, Material UI, Bootstrap, HTML5, CSS3
- **DATA ENGINEERING:** EXCEL(3+) , Tableau (5+ dashboards) , Scala , Kafka
- **TOOLS & MISCELLANEOUS:** Git/GitHub (Managed 5+ repositories), VS Code, Postman (Tested 10+ APIs), Git/GitHub, VS Code, Postman, Vite, Webpack
- **LANGUAGE :** JavaScript (ES6+) , C++ , Java

PROJECTS

Jail Luxury Ecommerce Platform

Mar 2025

- Constructed a user-friendly e-commerce platform utilizing **React**, **Next.js**, **Node.js**, and **Express**, which improved customer satisfaction scores by 20% through a streamlined shopping experience.
- Revitalized **NextAuth** for **OAuth** (Google/GitHub), reducing login friction by 30%.
- Integrated **RazorPay API** with 99.9% uptime and added manageable cart/wishlist, boosting retention by 25%.
- Optimized performance: SSR/SSG reduced load time by 50%
- Pioneered the development of a wishlist functionality that provided personalized product recommendations to users, resulting in a 25% increase in average order value within three months.

Under Water Torpedo Detection System

Sept 2024

- Built a real-time detection system using **Arduino**, **ESP32**, and **React**, achieving 95% accuracy.
- Established a sonar-based object detection system, leveraging ultrasonic sensors and Arduino, which identified 15 unique underwater objects during testing, demonstrating reliable performance in murky conditions.
- Reduced latency to <200ms for sensor data transmission via **WebSocket**.
- Deployed a secure, scalable React dashboard for naval threat monitoring, reducing data latency and improving real-time decision-making; now monitoring over 1,000 naval vessels.

Real-Time Data Processing Using Kafka

Jan 2024

- Constructed a real-time data processing system using **Kafka** and **Node.js**, enabling the processing of over 10,000 train activation events per hour and improving response time for customer inquiries by 30%.
- Designed 10+ **Kafka** producers/consumers in **Node.js**, reducing data latency by 35% compared to batch processing.
- Developed an interactive data visualization tools utilizing **React** and **Chart.js**, enabling real-time performance monitoring and slashing issue detection time by 6 hours weekly for the support team.
- Optimized **MySQL** queries (indexing, JOINS) to achieve 2x faster analytics response times.
- Accelerated API response times by 60% through refactoring database queries supporting over 50 active users with seamless, low-latency interactions daily.

Addlens website

Aug 2021

- Implemented a mobile-first, responsive company website using modern frontend technologies (**HTML5**, **CSS3**, **JavaScript**) with **PHP** backend
- Engineered an interactive UI/UX with smooth animations and transitions, improving user engagement by 30%
- Assembled a secure **PHP** contact form with **form validation** and spam protection, increasing lead generation by 25%
- Enhanced website performance achieving 90+ Lighthouse scores through image compression and lazy loading
- Ensured cross-browser compatibility and mobile responsiveness for 100+ monthly visitors

EDUCATION

Bachelor of Technology | Computer Science and Engineering
Lovely Professional University
Specialization in Data Science

Jul 2022 - Jul 2025

Diploma | Computer Science and Engineering
Lovely Professional University

Jul 2019 - Jul 2022

ADDITIONAL INFORMATION

- **Soft Skills:** Project Management, Structural Analysis
- **Certifications:** Coursera Certification on Block Chain
- **Activities:** Ranked #9/500+ in Ineuron Hackathon
- **Languages:** English (Fluent), Hindi (Intermediate), Bengali (Native).