

Deepanshu Saini

+91 9990316614

deepanshukamlesh@gmail.com

LinkedIn

Github

Experience

Havells India LTD

Jan 2023 – Present

Associate Research Engineer

Bangalore

- Led the development of an idempotent, Redis-backed API to raise service requests within the A La Carte feature, enabling seamless and reliable paid service bookings; contributed to a 35% increase in successful service submissions and a 22% growth in monthly active users through the app.
- Built and optimized core backend modules for Smart Sell – a feature that allows users to sell their old appliances online – including dynamic pricing logic and appliance eligibility checks; improved offer accuracy and enabled a 30% increase in lead conversion rate through refined backend workflows.
- Engineered backend systems to ingest, store, and process large volumes of telemetry data from Havells devices; used Kafka to enable real-time event streaming and ensure accurate, timely device monitoring and analytics.
- Implemented the backend from scratch for the most selling products, Lloyd Washing Machine and Lloyd AC, using a microservices architecture with Node.js, Express.js, and Redis for real-time device control and data persistence. Leveraged GraphQL for flexible data querying, enhancing system scalability and performance.

Projects

Bazaar App | Node.js, JavaScript, Express.js, Flutter, Dart, MongoDB, JWT, Cloudinary

- Implemented Email and Password Authentication with JWT for secure user access and session management.
- Persisted authentication state using Hydrated Bloc, ensuring seamless user experience across app restarts.
- Designed and integrated category-wise product management features, improving product discovery for users.
- Built and optimized cart management features, allowing users to seamlessly add, remove, and modify cart items.

Type Racer App | Node.js, JavaScript, Express.js, Flutter, Dart, Socket.io, MongoDB

- Developed a real-time multiplayer typing game allowing users to create or join rooms with validation and copy the room code for easy sharing.
- Implemented live progress tracking of users within the same room using Socket.io, showing current typed words, remaining words, and real-time updates.
- Integrated a leaderboard system to track user typing speed (words per minute), driving healthy competition.

Blog App | Flutter, Dart, Supabase

- Developed a scalable full-stack blog application using Supabase for authentication and data storage, adhering to Clean Code Architecture and SOLID principles for maintainability and reusability; implemented efficient state management using Bloc/Cubit.
- Integrated Get It for Dependency Injection, decoupling interfaces from concrete implementations and allowing easy access to services across the entire app.

Gyaan Setu Bot | Node.js, JavaScript, Telegram

- Built a feature-rich Telegram bot using Node.js and Telegraf.js, supporting intelligent responses, user session management, JavaScript algorithm code generation, joke delivery, and song playback through modular command-based architecture.
- Integrated AI-based chatbot functionality to provide dynamic, context-aware replies using a free AI model, enhancing user engagement and interactivity.

Technical Skills

Languages: C++, JavaScript, TypeScript, Dart

Technologies/Frameworks: Node.js, Nest.js, Express.js, MongoDB, PostgreSQL, Prisma, SQL, REST, Flutter, Microservices Architecture, Message Queues, Web Sockets, Amazon Web Services (EC2, S3, Lambda, IAM, API Gateway), Redis, GraphQL, Apache Kafka, Docker, NGINX, Jest, Git, Data Structure and Algorithms, Design Patterns, System Design

Education

Vellore Institute of Technology

2019 – 2023

B-Tech in Computer Science Engineering (CGPA: 8.82 / 10.0)

Bhopal, MP

Delhi Public School

2016 – 2018

XII (Percentage: 87.2 / 100.0)

Faridabad, Haryana