

# Deepak Tewatia

## Software Development Engineer

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 8053247817

 Portfolio

 LinkedIn

### SUMMARY

Full-Stack Developer with **2.7+ years** of experience building end-to-end web applications. I specialize in creating robust and scalable solutions using **React, Next.js, Node.js**, and **Nest.js**. My expertise spans both **frontend** and **backend** development, from crafting responsive user interfaces to managing efficient **databases** and APIs.

### SKILLS

#### Basic Skills

HTML/CSS, Javascript, TypeScript

Python, C++, GraphQL, NodeJs

Object Oriented, API Design Knowledge

Algorithms, Problem Solving

DevOps, CI/CD pipelines, AWS

Docker, Git & Github

#### Libraries / Frameworks

React, React.js, React Native, Next JS

Redux / Redux toolkit /Zustand

Nest.js, Express.js

### PROFESSIONAL EXPERIENCE

#### SDE, Betacraft

2024 – Present

Pune, India

##### Project & System Architecture

- Architected and implemented a microservices-based backend, enabling greater scalability and improved fault tolerance for key application features.
- Designed and built an **event-driven architecture** using a **pub/sub model with AWS SQS** to decouple services, significantly improving system resilience.
- Integrated various AI APIs into the backend, creating new functionalities and enhancing user experience with intelligent features.
- Contributed to the development of an AI project using **Svelte**, enabling users to train custom bots and share them within their organizations or embed them on websites via iframes.

##### Performance Optimization

- Reduced API response times by over **50%** through targeted backend optimizations.
- Re-architected backend logic by migrating mappers to the backend, enhancing data consistency and simplifying front-end logic.
- Improved database performance and query efficiency by over **20%** through strategic indexing and optimization.
- Optimized **React.js** application performance, achieving a **25%** reduction in load times through lazy loading and memoization to minimize re-renders.
- Applied **SOLID principles** to enhance code quality, leading to a more scalable and maintainable codebase.

##### Deployment & Infrastructure

- Automated application deployments using **GitHub Actions**, establishing robust CI/CD pipelines that reduced manual deployment time by over **80%**.
- Leveraged **AWS services**, including **CloudFront** as a **CDN**, to efficiently handle over **1 million** requests per day. The infrastructure, built with **Lambda, SQS, S3, App Runner, EC2, and RDS**, is designed for scalability and resilience.

- Secured environments by configuring **SSL certificates**, managing **IAM roles**, and implementing monitoring with **CloudWatch**.

#### **SDE, Simplicity Projects**

01/2024 – 08/2024

Faridabad, India

- Developed a high-performance resource and task management system, architecting the backend with **Hasura** and **GraphQL** to improve data retrieval by 40% and implement secure, role-based access with **PostgreSQL**.
- Built a responsive **React.js** frontend with integrated real-time collaboration features to enhance user productivity and ensure cross-device accessibility.
- Ensured 99.9% uptime and scalability by deploying the application on **AWS EC2** with **Docker** containers and **Nginx**. Optimized server performance by integrating **Amazon S3** for efficient image storage and direct uploads via pre-signed URLs.

#### **SDE, Dailykit(ONO)**

01/2023 – 01/2024

Gurgaon, India

- Developed and optimized robust **backend services**, implementing features like server-side pagination, advanced search, and filtering to enhance data management efficiency.
- Designed and built intuitive dashboards and user interfaces that improved data visualization, providing enhanced insights and boosting user engagement and retention.
- Used **Docker** for local development and to containerize services, which streamlined deployment and enhanced scalability.
- Architected and implemented real-time, event-driven notification systems, ensuring a responsive and up-to-date user experience.
- Automated complex workflows, including a bulk query upload feature with **Excel** sheet integration, to significantly reduce manual work and streamline the procurement process.

## PROJECTS

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### **Protobots.ai, (AI-Powered Platform)** ↗

- I developed end-to-end solutions that seamlessly integrated frontend and backend components, ensuring projects not only met requirements but also delivered exceptional user experiences.
- Streamlined database queries, reducing execution time by 25%, significantly improving site performance.
- Implemented robust security measures, including input validation and sanitization to mitigate common vulnerabilities.

### **Kiosk, brand Website & Admin Dashboard**

- Developed a comprehensive, real-time application serving **3** clients (web, mobile, and kiosk). The backend, built with **Node.js** and **Hasura**, enabled near-instant data synchronization across all platforms.
- Engineered a powerful, centralized admin system that reduced content update time by over **70%**. This includes a custom editor for website content and a dynamic configurator for managing self-ordering kiosks in real-time.
- Built a unified platform for order tracking, managing all orders from **2** sources (website and a mobile app) within a single interface, and allowing for the creation of new shop banners using a library of templates.

### **MovieFlicks** ↗

- Developed a dynamic, real-time movie application using **React.js** and integrated with the **IMDb API** to fetch and display up-to-date movie information.
- Designed and built a user-friendly interface with essential features like a search function, enhancing the user experience and providing easy access to movie data.