

Dinesh Choudhary

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INTRODUCTION

As a Senior Software Engineer with over 3 years of experience, I specialize in full-stack development using the MERN stack (MongoDB, Express.js, React.js, Node.js). I am proficient in building scalable, secure, and performance-optimized web applications. Passionate about leveraging emerging technologies such as **Generative AI**, **NLP**, and **Machine Learning**, I aim to drive innovation and automation within software solutions. Experienced in Agile environments, I work collaboratively with cross-functional teams and continuously improve processes. I am eager to contribute to complex, high-impact projects and grow into leadership roles in software development.

WORK EXPERIENCE

L&T Infotech (LTI Mindtree)

Senior Full Stack Developer

July, 2022 – Present

Mumbai, Maharashtra

- **Micro-frontend Architecture:** Collaborated within a micro-frontend framework, managing user authentication in the root application and coordinating independent micro-frontends for modular, scalable solutions.
- **Refactoring & Code Optimization:** Refactored legacy codebase by applying **SonarLint** guidelines and integrating **SCSS** for scalable, maintainable styling, enhancing overall code readability and performance.
- **State Management:** Designed and implemented advanced **state management** solutions using **Redux** and **React Context API**, improving performance, user experience, and component reusability.
- **Feature Enhancement:** Spearheaded the integration of new features, adhering to **Jest**-based unit testing practices, resulting in a robust and reliable codebase with high test coverage.
- **Cross-functional Collaboration:** Worked closely with product managers, designers, and backend teams to deliver high-quality features and ensure smooth integration across platforms.
- **Agile Practices:** Led the adoption of **Agile methodologies** with iterative updates, task prioritization, and code reviews to foster continuous improvement and high team productivity.

PROJECTS

MERN Stack Developer

Duration: June 2023 - present

Client: Kenvue

Responsibilities:

Client Engagement:

- Worked closely with clients to understand their requirements and translate them into technical specifications.
- Conducted regular meetings and presentations to keep clients updated on project progress and incorporate their feedback.
- Ensured the final deliverables met or exceeded client expectations, resulting in high client satisfaction and repeat business.

Frontend Development:

- **Designed and developed highly responsive web pages** using modern web technologies such as HTML5, CSS3, and React JS.
- **Built complex features and UI components** by collaborating with product and design teams, using advanced state management (e.g., Context API, Redux) to deliver responsive and optimized user interfaces.
- **Enhanced feature set and code quality** through new stakeholder-driven functionality and proactive legacy code improvements, optimizing state logic and boosting performance.
- **Developed robust unit tests with Jest** to validate new and refactored code, achieving high test coverage to prevent regressions and improve code reliability.
- **Worked cross-functionally for smooth micro-frontend integration**, collaborating with backend teams to streamline API integrations and ensure stable data flow across the architecture.
- **Applied Agile practices** for effective task prioritization, iterative updates, and code reviews, fostering continuous improvement and high team productivity.

Technologies Used:

- **Frontend:** React, Redux, HTML5, CSS3, TypeScript, JavaScript (ES6+), SCSS, Jest
- **Backend:** Node.js, Express.js, MongoDB, JWT, RESTful APIs
- **Version Control:** Git, Bitbucket
- **Build Tools:** Webpack
- **Other Tools:** Visual Studio Code

End-to-End Business Process Monitoring for JnJ

Duration: Mar 2023 – June 2023

Client: Johnson & Johnson (JnJ)

Technologies Used: React.js, Node.js, MongoDB

Developed a business process monitoring application that tracks business flows in real time. The solution includes:

- **Real-time data visualization** with interactive charts and graphs, improving monitoring efficiency by 30%.
- **Tracking failure scenarios** to enable rapid issue resolution by the IT team, reducing downtime by 40%.
- Leveraging React.js for frontend and Node.js for backend integration with MongoDB as the database, ensuring scalable and reliable architecture.
- Designed a user-friendly interface to facilitate seamless navigation and improved user adoption.

Generative AI for JnJ Finance Tracker with PDF Extraction and Dynamic Chart Generation

Client: Johnson & Johnson (JnJ)

Duration: Mar 2023 – May 2023

Technologies Used: Python, Flask, OpenAI GPT, Chart.js, RAG, Embeddings, SQLite

Developed an **AI-powered chatbot** to support business teams in generating dynamic charts from finance data stored in PDFs. Key features include:

- **User Queries:** The chatbot answers business-related questions (e.g., sales revenue over time) by dynamically extracting data from PDFs, providing actionable insights in seconds.
- **Dynamic Chart Generation:** LLMs are used to create JSON responses for visualizations, such as bar charts, pie charts, and line charts using Chart.js, enabling better financial analysis.
- Integrated RAG techniques to improve the accuracy and relevance of extracted data from unstructured documents.
- Enhanced the chatbot's contextual understanding to support complex multi-turn conversations.

Generative AI for Business Report and Dashboard Integration

Client: Johnson & Johnson (JnJ)

Duration: Jan 2023 – Feb 2023

Technologies Used: Python, Flask, D3.js, Crossfilter.js, SQLite

Integrated **Generative AI** with a business reporting system to dynamically generate SQL queries based on user input and display results on a real-time dashboard. Key achievements include:

- **AI-Driven Query Generation:** Utilized LLM models to create precise SQL queries, reducing query formulation time by 50%.
- **Dynamic Visualization:** Used D3.js and Crossfilter.js for visualizing business data with real-time filters, enabling granular insights into metrics.
- Developed robust error-handling mechanisms to ensure smooth operations and accurate data retrieval.
- Provided an intuitive dashboard interface that enhanced decision-making capabilities for stakeholders.

Business Dashboard for Daily Tracking and Reporting

Client: Internal Business Reporting Project

Duration: Sep 2022 – Dec 2022

Technologies Used: Python, Flask, D3.js, Crossfilter.js, SQLite

Designed and developed an **interactive business dashboard** to track and report key business metrics, such as revenue data over different periods. Notable contributions include:

- **Dynamic Visualizations:** Leveraged D3.js and Crossfilter.js for interactive filtering and visualization, empowering users to analyse data from multiple perspectives.
- **Flask Backend:** Integrated with SQLite to store and query data efficiently, improving response times for large datasets.
- Enhanced reporting features with export options for stakeholders to generate periodic reports with a single click.
- Provided custom filtering and sorting capabilities to enable targeted data analysis, improving operational efficiency by 20%.

SKILLS & INTERESTS

Technical Skills

- **Programming Languages:** JavaScript (ES6+), TypeScript, Python, SQL, C
- **Frontend:** React.js, Redux, Next.js, HTML5, CSS3, Tailwind CSS, Chart.js, D3.js, SCSS
- **Backend:** Node.js, Express.js, Flask, RESTful APIs, GraphQL, Microservices
- **Database:** MongoDB, SQLite, MySQL, PostgreSQL
- **Cloud & DevOps:** AWS EC2, AWS S3, Docker, CI/CD pipelines
- **Data Visualization:** D3.js, Chart.js, Crossfilter.js
- **Generative AI & NLP:** OpenAI GPT, LLMs, RAG, NLP, Embeddings
 - Built AI-powered chatbots and data-driven insights with Generative AI, SQL query automation, and dynamic chart generation
- **Testing:** Jest, Mocha, Cypress, TDD
- **Version Control:** Git, Bitbucket, GitHub
- **Tools:** Webpack, Postman, JIRA, Slack, Agile Methodology

Soft Skills

- **Agile Methodology, Team Collaboration, Problem-Solving, Mentorship & Leadership**

EDUCATION

SIES GST Engineering College
BTech (Computer Engineering)

June, 2022
10 CGPA, Mumbai, Maharashtra