

Aditya Tomar

Software Engineer

Delhi, India

+91 7060990884 | +91 7251990208

adityatomar1803@gmail.com

<https://www.linkedin.com/in/tomar-aditya/>

Experienced **Full Stack Developer** proficient in **MERN stack, Python, and Django**. With an insatiable curiosity for complex challenges and an unwavering commitment to achieving excellence, I flourish in dynamic and collaborative environments. I leverage various **AI tools** to fast-track my work by 2x, ensuring efficient and innovative solutions.

I firmly believe that self-belief and perseverance, when combined, form the cornerstone of success

EXPERIENCE

Software Engineer | Aug 2022 - Present

Dentread Technologies, Noida

- Spearheaded web development using **Next.js and React.js**, resulting in a 30% increase in user engagement by optimizing UI/UX and performance and reducing page load times by 40%, improving performance and SEO.
- Built a custom **3D viewer** for patient scan files using **Three.js**, supporting formats like **STL, PLY, and OBJ**, with advanced features such as **2D slicing, zoom, and pan**. The viewer is actively used by 500+ dental organizations, enabling doctors to interact with scans efficiently.
- Developed a **keyword-based search system** for large patient reports using the **Elastic Search Stack**, indexing 5,000+ reports to enable fast and accurate retrieval.
- Developed an **Advanced Image Tagging** feature integrated with **Elasticsearch**, enabling users to tag and search medical images like **DICOM files, STL, PLY, OBJ** images. Currently, the feature manages 15,000+ dental images utilized by 500+ dental organizations, significantly enhancing usability and search accuracy.
- Spearheaded the **Imaging Center module**, managing the entire project lifecycle—from architecture and backend implementation in **Django** to frontend UI/UX development with **React.js**.
- Led the development of the **Practice Management System (PMS) module**, a core feature set that handles appointments, billing, patient history, and more, streamlining workflows for dental practitioners. Currently, PMS module is used by 10,000+ doctors across India and abroad.
- Worked with **Azure DICOM Services** to store and manage DICOM data for patient imaging, ensuring compliance with medical data standards.
- Designed and implemented a robust **Role-Based Access Control (RBAC)** system across the platform, ensuring granular user permissions and enhancing security for sensitive patient data.
- Integrated **third-party APIs and libraries** for added functionality, including payment gateways(**stripe**) and real-time notifications.
- Optimized **SQL queries and database schemas** to improve data storage and retrieval performance by 50%.
- Collaborated with designers, stakeholders, and other engineers to deliver feature-rich and maintainable codebases

SKILLS

- NextJS, ReactJS, NodeJS, Express, Javascript, MaterialUI, Bootstrap, HTML, CSS, Python, Django,
- SQL, MongoDB, Mongoose, PostgreSQL, Docker, Kubernetes, Microservices, AWS, MS Azure, Github

EDUCATION

Bachelors of Engineering(CSE) | 2018-2022

Chandigarh University, Mohali

CERTIFICATIONS

- Cloud Computing Specialization - Coursera
- Front-End Web Development with React - Coursera
- Algorithm Toolbox - Coursera

OTHER INTERESTS AND INFO

- Led University Baseball Team in All India Inter-University
- Deep interest in Politics and History