PEETAMBER PANCHARIA

peetamberpancharia0@gmail.com | +91-8369227667 | B.Tech (Information Technology) | Tech Enthusiast

An impact-driven Software Engineer with 3 years of experience building scalable full-stack applications in the EdTech domain. Proficient in React, Node.js, and MongoDB, with a strong track record of delivering end-to-end interactive features, improving platform accessibility, and collaborating directly with clients and technical leadership to translate requirements into robust solutions.

WORK EXPERIENCE

Senior Software Engineer | *Zeus Learning Pvt. Ltd.* | *Jun 2023 - Jun 2026* | *Mumbai, India*

- Built a full-stack Content Management System enabling teachers to author question modules, track student attempts, and generate performance reports - serving as the primary engineer across frontend, backend, and scoring layers.
- Designed and developed diverse question module types in React.js and Node.js, translating complex client requirements into robust, user-friendly implementations.
- Architected backend scoring strategies for complex assessment types, ensuring accurate and real-time evaluation of student responses.
- Identified and resolved a critical performance bottleneck caused by concurrent component rendering, significantly reducing CPU load and improving page responsiveness.
- Developed a cross-system data migration tool using .NET and MongoDB, enabling seamless transfer of content and assessment data across platforms.
- Integrated external assessment standards and third-party platforms, enabling interoperability and expanding the product's functional reach.
- Strengthened accessibility and usability by implementing screen reader support, keyboard navigation patterns, and assistive technology integrations - ensuring standards compliance across devices and operating systems.
- Acted as a technical point of contact for client requirement discussions, translating business needs into actionable engineering solutions.
- Collaborated on defining system architecture and data flow for new feature development, ensuring scalability and maintainability from the ground up.

PROJECTS

Healthcare App for ASHA | *React, Node.js, MongoDB*

- Led UX and product strategy for a digital healthcare platform designed for ASHA workers with limited technical literacy, prioritizing simplicity and accessibility in design and feature set.
- Architected an intuitive interface that reduced cognitive load for non-technical users, enabling them to manage health records and workflows digitally without extensive training.
- Served as lead presenter to technical jury and academic stakeholders, articulating design decisions and product vision.

NephroBlocks - Medical Research Intelligence System | *Python, Neo4j, Machine Learning*

- Led a 3-member team partnering with an external company to build an end-to-end system that extracts and visualizes knowledge from fragmented medical research papers.
- Designed data pipeline and model training workflow to automatically extract disease-specific keywords and insights from research papers, feeding structured data into a graph database for intuitive visualization.
- Demonstrated technical leadership in coordinating model training, database schema design, and system integration across multiple components.

Capital Gain - Enterprise Transaction Management System | *ElectronJS, PostgreSQL*

- Built a desktop application for a real-world investment company to digitalize manual transaction monitoring and portfolio management workflows, reducing operational overhead.
- Designed relational database schema and transaction processing logic to handle complex investment tracking and reporting requirements.

EDUCATION

Bachelor's in Technology - Information Technology (9.4 CGPA) *Mumbai, India*
K. J. Somaiya Institute of Information Technology, Mumbai *2023*

SKILLSET

JavaScript | TypeScript | Python | React.js | Node.js | Express.js | .NET | PostgreSQL | MongoDB | REST APIs | Git | Cross-browser Testing | Agile | Accessibility (WCAG / ARIA) | Client Communication | Stakeholder Management | Cross-functional Collaboration

AWARDS & ACCOLADES

2nd Place - Code Adventure 3.0 Hackathon | *Organized by RIIDL* | *2021*

Finalist - Encode 2021 | *Organized by IIT Guwahati* | *2021*

Finalist - Toycathon 2020 | *Organized by AICTE* | *2020*

Finalist - Maker Mela 2021 | *Organized by RIIDL* | *2021*

Chairperson | *IEI-KJSIEIT Student's Chapter*

LANGUAGES

English (Professional) | Hindi (Native) | Marwadi (Native) | Marathi (Native)