

PREMKUMAR S

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SUMMARY

Versatile and proactive Full Stack Engineer with 1+ years of professional experience, supported by hands-on internships and personal projects. Proficient in developing responsive and scalable web applications using React.js, Material-UI, and JavaScript, with solid backend expertise in Node.js and MongoDB. Skilled in API integration, microservices architecture, and writing clean, maintainable code. Passionate about solving real-world problems and continuously expanding knowledge of emerging technologies.

EDUCATION

SRM TRP Engineering College <i>Bachelor of Engineering - Computer Science (7.6 CGPA)</i>	<i>Trichy, Tamil Nadu IN</i> <i>Aug 2019 - 2023</i>
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TECHNICAL SKILLS

Languages: JavaScript, TypeScript
Frameworks: React.js, Node.js, Express.js, Next.js, Bootstrap, Tailwind CSS, Material-UI (MUI)
Database: MongoDB, Mongoose.js
DevOps & Tools: Git, GitHub Actions, VS Code, Google Cloud Console
Concepts: REST API Development, Responsive Design

EXPERIENCE

Software Engineer Gevinst Technologies Pvt. Ltd.	<i>Apr 2024 - Present</i> <i>Chennai, Tamil Nadu, IN (Hybrid)</i>
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- Developed and maintained core modules of a Learning Management System (LMS), including quizzes, dashboards, attendance tracking, analytics, and role-based access, using React.js, Redux, and Material-UI (MUI).
- Built a secure quiz engine with features like cheat prevention, full screen enforcement, test resumption, and state persistence to ensure a seamless and secure test-taking experience.
- Refactored legacy components to fix caching issues, improving performance, stability, and cross-browser compatibility.
- Designed and implemented interactive and animated user interfaces tailored for both general learners and young students, ensuring responsive design across all devices.
- Integrated third-party AI APIs to send student audio data for real-time speech evaluation and AI-generated question suggestions, using WebSocket connections for efficient two-way communication and timely feedback.
- Created dynamic, real-time data visualizations and dashboards to deliver actionable insights for teachers and administrators.
- Revamped over 30 UI screens in a legacy PHP-based Student Tracking System, using HTML, CSS, Bootstrap, jQuery, and Data tables to modernize the interface and improve data interaction.
- Supported backend enhancement for the Student Tracking System, including basic API creation, middleware logic, and MongoDB operations (CRUD and schema modeling).
- Built dashboard interfaces from scratch, implementing API integrations, lazy loading, and modular components to support performance and scalability.
- Collaborated with QA, UI/UX designers, and product teams to resolve bugs, gather requirements, and implement usability improvements.
- Maintained Git version control, handled branching/merging strategies, and participated in CI/CD pipelines for seamless deployment.

Software Development Intern Gevinst Technologies Pvt. Ltd.	<i>Mar 2024 – Apr 2024</i> <i>Chennai, Tamil Nadu, IN (Hybrid)</i>
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- Built mini-projects including a MERN stack e-commerce site and an admin panel, gaining hands-on experience in full-stack development, CRUD APIs, and component reusability.
- Recreated the official company website using React.js and Bootstrap, improving mobile responsiveness and modern UI structure.
- Practiced both Bootstrap and Tailwind CSS to deliver pixel-perfect, responsive designs compatible across devices.
- Collaborated closely with UI/UX designers to translate design mockups into interactive components, enhancing teamwork, communication, and real-world Agile workflow understanding.
- Implemented API integrations, dynamic form management, and clean state handling with React hooks and context.
- Gained experience in Git/GitHub workflows, including pull requests, branching, and resolving merge conflicts.
- Deployed applications on cloud platforms and participated in team code reviews and local test deployments.

PROJECTS

E-commerce Web Application | [Under Development](#)

Apr 2025 - Present

- Developed a fully responsive, mobile-first e-commerce website using Next.js and Tailwind CSS, ensuring seamless user experience across devices and browsers.
- Implemented Redux for centralized state management including user authentication, shopping cart, and product filtering.
- Created reusable and modular React components for product listing, details, checkout, and user profile pages.
- Designed and developed RESTful APIs using Node.js and Express.js for user management, product catalog, and order processing.
- Used MongoDB as the primary database for efficient data storage and retrieval of users, products, and transactions.
- Architected backend services with microservices principles to improve scalability, maintainability, and deployment flexibility.
- Followed best practices in code quality, performance optimization, and security to ensure robust development standards.

Stack: Next.js, Node.js, MongoDB, Express.js, Tailwind CSS, JWT, Microservices

Quiz Application | [Under Development](#) | [Quiz App](#)

Dec 2024 - Present

- Developed a full-stack quiz application supporting two roles: Admin and User, with role-based access control.
- Built backend APIs for user registration, login, JWT token verification, and secure middleware for authentication and authorization.
- Designed well-structured RESTful APIs with structured response handling, including pagination and search functionality for quiz questions.
- Created MongoDB schemas with validation for users, quizzes, and questions to ensure data integrity.
- Implemented quiz creation workflows by linking multiple questions to quizzes, allowing admins to manage quizzes and questions efficiently.
- Developed frontend interfaces for both admins (quiz/question management) and users (test-taking and result viewing) using React.js, TypeScript, Redux, and Material-UI.
- Enabled lazy loading of quiz content to optimize frontend performance and enhance user experience.
- Integrated quiz evaluation logic in backend for automatic result calculation and stored user attempts with detailed scoring.
- Ensured seamless synchronization between frontend and backend, handling state management, API calls, and error handling effectively.

Stack: React.js, TypeScript, Redux, Material-UI, Node.js, Express.js, MongoDB, JWT

Blog Web Application | [Blog App](#)

Dec 2023 – Feb 2024

- Developed a full-stack blog application allowing users to register, login, and reset passwords securely.
- Implemented CRUD operations enabling users to create, edit, delete, and view blog posts.
- Enabled user-to-user content discovery and browsing features.
- Designed responsive UI to ensure seamless user experience across desktops, tablets, and mobile devices.
- Built backend APIs to handle user authentication, authorization, and blog management with secure and efficient data handling.
- Ensured smooth synchronization between frontend and backend with proper error handling and API communication.

Stack: React.js, Node.js, MongoDB, Express.js, CSS