MANICKA VASAGAM D

React Developer || Frontend Developer || Immediate Joiner

Software Developer with 2+ years of experience in building **scalable, high-performance, and responsive web applications** using **React.js, Next.js, and Typescript**. Skilled in **analyzing user requirements, envisioning system features and functionality**, writing **unit and integration tests (Jest)**, optimizing API calls, and delivering **modular, maintainable code**. Strong foundation in **object-oriented programming (OOP)**, **design patterns**, and **software development best practices**. Passionate about designing and developing **low-latency, high-availability applications** with a strong focus on **performance optimization, code quality, and user experience**.

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Career Objective

A passionate and driven software developer who thrives in dynamic environments. I believe challenges fuel professional growth, and I enjoy simplifying complex problems through efficient, innovative solutions. With a solid foundation in **React, Next.js, Typescript, and OOP concepts**, along with experience in **automated testing, performance tuning, and architecture validation**, I aim to contribute to building impactful applications that deliver **scalable, maintainable, and high-quality user experiences**.

Professional Experience

- Software Engineer

Gove Enterprises | Dec 2023 – Present

- **Analyzed user requirements, envisioned system features and functionality**, and designed scalable applications using **Next.js, React.js, Typescript, and MUI**.
- **Designed and developed responsive, high-quality web applications** ensuring **optimal performance, scalability, and adherence to software development processes**.
- Implemented **unit and integration tests with Jest**, improving reliability and reducing regression issues.
- Applied **design and architectural patterns** to enhance **code modularity and maintainability**, achieving a **15% improvement in load time**.
- Integrated **global state management (Zustand)** to reduce unnecessary API calls by **20%**, improving efficiency.
- Collaborated with cross-functional teams to **define, design, validate architecture, review code, and deliver new features** aligned with business requirements.
- Participated in **project estimation, solution delivery, technical risk planning, debugging, and troubleshooting** to ensure smooth deployments.
- Conducted **code reviews, unit test plan reviews**, and mentored interns and freshers in **React best practices, test-driven development, OOP, and performance optimization**.
- Ensured compliance with **organizational guidelines and best practices**, contributing to **high customer satisfaction** and continuous improvement.
- Experienced in **performance analysis and optimization**, REST API integration, and database-driven applications. Worked in **Agile/Scrum environments** across the full **software development lifecycle (SDLC)**.
- Collaborated with stakeholders and product owners to **articulate technical challenges and deliver scalable solutions**.
- Strong communication skills with ability to work in **cross-functional, distributed teams** and adapt to **ambiguous/undefined problems**.

Projects

Snake Game

- Built with **vanilla JS, HTML, CSS** featuring **OOP-inspired game logic** (collision detection, event handling).
- Focused on **real-time responsiveness, modular code structure, and user experience optimization**

For Live Demo:https://snake-game-ec9921.netlify.app/

Multi-Tenant Inventory Management System

- **Analyzed requirements and implemented role-based access control** for multiple tenants.
- Developed a **scalable, modular architecture** ensuring **high maintainability and system performance**.
- Built with **React + Typescript + MUI**, integrated **Zustand for global state**, and optimized API calls.
- Applied **design principles** for **efficient program structure**, improving **code quality and maintainability**.

Mojito Cocktails Website (Jul 2025 – Present)

- Designed a **responsive, animated web app** using **React and GSAP** with a focus on **UI/UX and performance optimization**.
- Applied **modular coding practices** and **component-based architecture** to ensure maintainability.
- Conducted **testing and debugging** to ensure high-quality delivery.

For Live Demo: https://mojito-iota.vercel.app/

Student Management System (May 2024)

- Developed a **full-stack application using React, Node.js, and MongoDB** to manage CRUD operations.
- Applied **OOP concepts, modular design, and responsive UI development** to optimize performance.
- Conducted **unit testing, troubleshooting, and code reviews** to ensure stability.
- For Live Demo: https://student-management-system-client-bay.vercel.app/

Skills

Technical Skills

- **Frontend**: React.js, Next.js, Typescript, JavaScript, HTML, CSS, MUI, GSAP, Rxdb (indexedDB) for reducing API calls.
- **Backend**: Node.js, MongoDB, **RESTful API Development**
- **Testing**: Jest (**unit tests, integration tests, automated test platforms**)
- **Design & Architecture**: Object-Oriented Programming, Design Patterns, Modular Architecture, System Design
- **Performance Optimization**: Debugging, Load Time Reduction, Code Quality Improvement, Scalability,Performance Analysis.
- **State Management**: Zustand, Redux.
- **DevOps Tools**: Familiar with Docker, Jenkins, Azure, and implementing **security best practices**
- **Software Development Process**: Agile, Code Reviews, Technical Risk Planning, Requirement Analysis, **SDLC**

Soft Skills

- Leadership, Communication, Team Collaboration, Creative & Logical Thinking, Requirement Analysis, Client Interaction, Knowledge Sharing.
- Strong ability to **articulate technical challenges and solutions** to both technical and non-technical stakeholders.
- Adaptability in handling **ambiguous problems** with **abstract thinking and problem-solving mindset.**

Education
Bachelor of Engineering (EEE)

- Nandha Engineering College, Perundurai | CGPA: 7.5 | 2018–2022

Languages
- Tamil: Speak, Read, Write
- English: Speak, Read, Write.