Tiarro Elprida Tamba
Frontend Web Developer

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INTRODUCTION

Frontend Web Developer with 4 years of professional experience building responsive and user-friendly web applications using React, Next.js, and TypeScript. Experienced in applying modern state management patterns such as React Hooks, Zustand, and MobX to handle complex UI logic. Skilled in integrating backend APIs, implementing real-time updates, optimizing functionality for better performance, parsing uploaded Excel files and visualizing extracted data into dynamic tables. Focused on clean code, performance, and user-centered web solutions

PROFESSIONAL EXPERIENCE

React Developer, Hamonix Teknologi Peentar   **January 2022 - Present**

- Developed responsive and dynamic web applications using React.js and Next.js
- Architected scalable state management and reusable UI logic using Zustand/MobX and custom React hooks
- Optimized performance through lazy loading, memoization, code splitting, and search debouncing
- Managed CI/CD pipelines and deployment processes using Jenkins for seamless delivery
- Collaborated with UI/UX designers via Figma to build high-fidelity components and ensure seamless responsiveness across all device breakpoints and Back-end teams to integrate RESTful APIs
- Ensured code quality through active code reviews and proactive bug resolution from Tester to enhance user experience

PROJECT EXPERIENCE

Back Office Frontend (Mercubuana)   **November 2024 - Present**

- Developed comprehensive General Ledger module for multi-campus educational institution using Next.js 16 + TypeScript, serving 8+ microservices with 508+ lines of complex state management
- Implemented 4 core accounting features: Jurnal Entry (CRUD + bulk operations), Neraca (balance sheet), Neraca Percobaan (trial balance), and Laba Rugi (profit & loss) with real-time data validation
- Optimized performance for large-scale datasets using virtual scrolling, lazy loading, and debounced search, handling thousands of financial transactions per period
- Built custom component library with PrimeReact + TailwindCSS, implementing responsive design system with skeleton loaders and smooth transitions
- Integrated RESTful APIs with full TypeScript type safety, centralized error handling, and support for PDF/Excel export functionality
- Architected state management using Zustand for global state and React hooks for local state, ensuring predictable data flow across complex accounting workflows

ILK (Hutang Dagang)   **October 2025**

- Developed a comprehensive back-office management system using Next.js 14, Zustand, serving as the central interface for multiple business operations including accounting, organization management, partner relations, and governance
- Created scalable frontend architecture supporting multiple business domains
- Improved developer productivity through reusable components and standardized patterns
- Established comprehensive code quality standards and automated workflows
- Built responsive, accessible interface following modern web development best practices

Shopfloor HMI (Human Machine Interface)   **August 2025**

- Developed a sophisticated web-based HMI system using React 18.3.1 and Typescript for manufacturing environments, enabling real-time monitoring and job management across industrial machines
- Built a web-based HMI interface with machine-specific job and monitoring views
- Visualized job progress and status via Chart.js doughnut charts
- Developed responsive UI components using PrimeReact and Tailwind utilities
- Implemented real-time updates using STOMP.js + SockJS WebSocket subscriptions
- Managed application state with MobX across machine and job workflows

SKILLS

- **Programming Languages**: JavaScript, Typescript
- **Frameworks & State Management:** React.Js, Next.Js, MobX, Zustand
- **Development & Testing Tools:** Git, GitLab/Github, WebStorm, Visual Studio Code, Postman, Swagger, Figma
- **Library UI & Code Quality**: ESlint, Prettier, SonarQube, SASS/SCSS, Tailwind CSS, Material UI, PrimeReact, Shadcn/UI
- **Soft Skills**: Collaboration, Detail-oriented, Creative Thinking, Problem-Solving

EDUCATION

Institut Teknologi Del – Laguboti, Sumatera Utara   **2018 - 2021**

Diploma 3 of   Technology Information