

# Maulana Sodikin

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*Software Engineer*

## Contact Information

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**GitHub:** github.com/maulanasdqn

**Portfolio:** msdqn.dev

## Summary

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Frontend-focused Software Engineer with 5+ years of experience building scalable and maintainable web applications using ReactJS, TypeScript, and TailwindCSS. Proficient in modular UI architecture, design systems, test-driven development, and modern state management with React Query and Jotai. Experienced in working with micro frontend structures and NX monorepos to support large-scale applications. Currently expanding full-stack skills with Rust and Axum to gain deeper backend architecture understanding.

## Key Skills

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- ReactJS, NextJS, TypeScript, JavaScript (ES6+)
- TailwindCSS, Shadcn, Ant Design, HTML/CSS, Responsive Design
- State Management: Tanstack React Query, Jotai, Zustand, Recoil, Redux
- Testing: React Testing Library, Vitest, Jest, MSW, Test-Driven Development
- Frontend Architecture: NX Monorepo, Module Federation, Micro Frontend
- UI Tooling: Storybook, Design Systems, Component-Driven Development
- Performance Optimization, Accessibility, Cross-Browser Compatibility
- Rust, Axum, SurrealDB, PostgreSQL (for fullstack capability)
- HonoJS, NestJS, ExpressJS (API and backend integrations)
- Drizzle, Prisma, TypeOrm (ORM and database tooling)
- Agile & Scrum Practices, Collaboration and Leadership

## Experience

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**Software Engineer** - DOT Indonesia

*Fulltime*

*Aug 2022 - Present*

- Built and maintained scalable web components using ReactJS, TailwindCSS, and Ant Design, reducing development time for new features by 35%.
- Implemented modular UI architecture and design patterns, improving code reusability across 20+ modules.
- Introduced React Query and Zustand for robust state management, enhancing frontend performance and developer experience.
- Collaborated with backend teams using Agile practices to deliver UX improvements, increasing user retention by 18%.

**Lead Software Engineer** - PT Indonusa Persada Teknologi

*Freelance*

*Jan 2025 - May 2025*

- Led 4 engineers to develop a micro frontend-based agriculture backoffice app with module federation and shared UI components.
- Reduced manual data processing by 70% through scalable CRUD workflows and reusable logic blocks.
- Developed integration and unit tests using React Testing Library, Vitest, and MSW, ensuring frontend reliability.

## **Lead Software Engineer** - M-Knows Consulting

*Internship*

*Feb 2023 - Jun 2023*

- Built modular financial dashboard components using ReactJS and TypeScript, reducing dev time by 40%.
- Integrated 10+ APIs with robust error handling and fallback states, reducing client-reported issues by 90%.
- Spearheaded Nx-based monorepo architecture to support shared tooling, versioned libs, and CI/CD pipelines, reducing deployment time by 50%.

## **Software Engineer** - Universitas Islam Nusantara

*Freelance*

*Jul 2023 - Dec 2023*

- Built an LMS used by 1,000+ students with modular routing and instructor dashboards using ReactJS and TailwindCSS.
- Developed a robust token-secured voting system with 99.9% uptime during peak hours using Next.js and PostgreSQL.
- Boosted site performance by 60% via code splitting, lazy loading, and preloading assets.

## **Software Engineer** - Perjalanan Menembus Galaksi

*Fulltime*

*May 2021 - Aug 2022*

- Delivered Vue.js interfaces with 99.5% Lighthouse performance score, serving 50,000+ monthly users.
- Reduced average page load by 2.3s via SSR optimization and async asset loading.

## **Software Engineer** - PT Telematric Integra

*Fulltime*

*May 2019 - May 2021*

- Modernized legacy systems with responsive Bootstrap-based interfaces, improving mobile usability by 80%.
- Built 10+ internal tools to streamline logistics operations, saving 100+ man-hours per month.

## **Projects**

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### **NAJM Course Frontend – Computer-Assisted Test Platform**

*Jan 2025 – Apr 2025*

Developed a modular and high-performance frontend app using **React 19**, **Vite**, **Ant Design**, and **TailwindCSS** within an **Nx Monorepo** setup. Implemented protected routes, role-based access, and robust state management using **React Query** and **Jotai**. Applied test-driven development with **Vitest**, **MSW**, and **React Testing Library**.

### **NAJM Course API – Computer-Assisted Test Platform**

*Jan 2025 – Apr 2025*

Architected a backend service using **Rust**, **Axum**, and **SurrealDB**, with strong type-safety and modular service layers. Ensured system reliability through full integration test coverage and enforced validation + access control.

### **Kuncie Scholarship – Scholarship Enrollment System**

*Jun 2024*

Developed a responsive web-based enrollment system using **Next.js** and **TailwindCSS**, featuring dynamic forms, admin workflows, and role-based access. Applied atomic design and state handling with React Context.

### **Sobat Bangun – Property Building Platform**

*May 2023 – Nov 2023*

Engineered a scalable modular platform using **Next.js**, **TailwindCSS**, and **Nx Monorepo**. Contributed to shared design system, optimized build pipelines, and enabled cross-team collaboration across multiple products.

### **Kalla SuperApp – Internal Business Dashboard**

*Oct 2023 – Dec 2023*

Implemented responsive and reusable UI components for a React-based SuperApp. Focused on design consistency using **Ant Design** and layout precision with **TailwindCSS** and **Flexbox**.

### **Kalla Property Management System**

*Jul 2023 – Nov 2023*

Built a multi-role property dashboard with **ReactJS** and **Ant Design**. Delivered dynamic table views, modal interactions, and complex form logic to streamline operational tasks.

### **Learning Management System (LMS)**

*Jul 2023 – Dec 2023*

Developed a complete LMS platform for 1,000+ users using **ReactJS**, **TailwindCSS**, and atomic component structure. Focused on performance and maintainability with lazy loading and role-segmented access.

### **Votsu – Decentralized Voting System**

*May 2023 – Jun 2023*

Built a secure Web3-enabled voting system using **Next.js**, **TailwindCSS**, and **Solana**. Achieved 100% vote integrity and mobile-first UX for university presidential elections.

## **Education**

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### **Universitas Islam Nusantara**

Bachelor of Engineering (S.T.) in Informatics Engineering

*Jun 2020 - Jun 2024*

- **Leadership:** Led the PSU Dev Team, managing development projects and fostering innovation.
- **Public Speaking:** Delivered presentations at the Informatika Coding Camp (ICC).
- **Mentorship:** Assisted students as a Practicum Assistant for programming courses.