

ADE SENDY FIRMANSYAH

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PROFILE

Frontend Developer with 4+ years building real-time, data-heavy web applications for enterprise and government clients. Specialized in Vue.js, Nuxt.js and TypeScript, with recent production work in React. Experienced with live data over WebSocket and SSE, video streaming, interactive maps and role-based access control, on platforms serving 1,000+ employees. Works closely with backend, UI/UX, QA and PM in remote, async teams.

EDUCATION

- **Universitas Terbuka** 09/2023 – Present
Information Systems Department | Bachelor's Degree
- **SMK Negeri 26 Jakarta** 06/2018 – 05/2022
Network Information Systems and Application

EXPERIENCE

Frontend Developer – Freelancer | Kementerian Pertahanan 08/2026 – 10/2026

- **ELAPKIN**
(*React.js · Zustand · Axios · ApexCharts · DataTables*)
 - Delivered enterprise monitoring and reporting features with quarterly and annual KPI calculations, budget realization tracking, multi-level recapitulation, interactive data tables, and print-ready performance reports.
 - Migrated 400+ files from JavaScript/Bootstrap/jQuery/DataTables to TypeScript/Material UI and consolidated API access into typed domain-based hooks across 200+ files and 40+ modules, maintaining consistent pagination/error handling while delivering features on schedule.
 - Extended role-based access control with permission-gated routes and actions for Echelon I, Echelon II, and unit administrator roles, plus role-based redirection after login.

Frontend Developer – Freelancer | Kementrian Pertahanan 12/2025 – 04/2026

- **SIROKUM**
(*Nuxt.js · TypeScript · Websocket · Tailwind CSS*)
 - Built a reusable Vue 3 component library — including a shared page layout used across 41 of 47 pages — alongside Chart.js analytics, Quill rich-text editing, and litigation timeline visualizations.

- Architected a secure Nuxt.js SPA with TypeScript and Pinia, implementing a single-flight token refresh that replays failed requests after a 401, so concurrent requests never trigger duplicate refreshes or lose responses, alongside wildcard-based hierarchical RBAC.
- Delivered end-to-end workflows for litigation tracking, contract lifecycle management, and correspondence management, optimized with server-side pagination, debounced search, file validation, and asynchronous document exports (PDF, Excel, CSV).

Frontend Developer – Contract | PT Solu Filantropi Teknologi

09/2022 – 08/2026

• SARAS | G4S Indonesia

(Vue.js · TypeScript · Tailwind CSS · WebSocket · HLS.js · WebRTC · Leaflet · Pinia · Axios)

- Eliminated map lag under high-frequency GPS telemetry by diffing markers by ID instead of re-rendering, caching icons, rendering to canvas, skipping no-op updates via coordinate hashing, and debouncing camera fits.
- Developed live CCTV zone management using RTSP/RTMP and HLS streaming, with snapshot/recording capabilities and optimized stream lifecycle management to reduce bandwidth usage and prevent connection leaks.
- Built the real-time layer for alarms, incidents, live chat, and GPS tracking over Laravel Echo, with channel listeners that leave stale subscriptions before joining new ones.

• HSE Portal | G4S Indonesia

(Vue.js · Axios · Vuex · Tailwind CSS · I18n · Firebase · SASS · Google OAuth 2.0)

Vue.js Frontend Developer - HSE Management Platform

- Built a modular Vue 3 enterprise dashboard with role-based routing, dynamic menu permissions, authentication, and user access management.
- Developed end-to-end hazard finding and situation report workflows with dynamic forms, image upload compression, approval flows, previews, and advanced filtering.
- Integrated Chart.js analytics, Google Maps visualization, Firebase push notifications, PDF/Excel export, QR/barcode scanning, and Docker/Nginx production deployment.

• LIPMANCE | Lion Parcel

(Vue.js · Axios · Tailwind CSS · Pinia · MFA/OTP)

- Developed and maintained LIPMANCE, a mission-critical internal performance management platform supporting 1,000+ employees across Lion Parcel, enabling company-wide OKR tracking, PDR management, and performance evaluation workflows.
- Created a dynamic OKR and PDR tracking dashboard featuring automated grading calculations, real-time formula validations, and dynamic weight-balancing checkers.
- Engineered programmatic file export/import pipelines, enabling HR and management teams to bulk-import employee data and export performance reports in Excel/CSV formats.

• Smart Patrol | G4S Indonesia

(Vue.js · TypeScript · Axios · WebSocket · Firebase · reCAPTCHA · Google Maps Platform)

- Developed a real-time emergency response platform used by 100+ active users, delivering WebSocket-based live updates, automatic reconnection, and instant incident synchronization.
- Engineered a custom geofencing and site-management module with Google Maps Polygon Drawing, enabling accurate operational boundary mapping and location-based monitoring.
- Built configurable inspection and operations dashboards featuring dynamic forms, real-time analytics, Chart.js visualizations, and role-based access control, improving operational visibility across teams.
- **RES Parking | PT Reska Multi Usaha**
(Vue.js · Server-Sent Events/SSE)
 - Developed a web-based parking management application that replaced a legacy desktop system, deployed locally at each of 160+ train station parking sites nationwide to handle real-time gate-in and gate-out operations.
 - Implemented Server-Sent Events (SSE) to stream live parking transaction data, card-reader statuses, gate operations, and hardware activity logs, enabling real-time monitoring and operational visibility.

SKILLS

- **Languages & Frameworks:** TypeScript, Vue.js, Nuxt.js, React.js, Next.js
- **State Management:** Pinia, Vuex, Zustand
- **Frontend Technologies:** Axios, REST API, WebSockets, WebRTC, Firebase Cloud Messaging (FCM), Leaflet, HLS.js, Google OAuth 2.0
- **UI & Styling:** Tailwind CSS, Element Plus
- **Tools & Workflow:** Git, Agile/Scrum
- **Soft Skills:** Cross-Functional Teamwork, Remote Collaboration, Async Communication