Muhammad Khalifah Erian

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SUMMARY

Frontend Developer with 3+ years of experience building React applications for telecom and enterprise clients. Currently maintains a 100+ page network performance dashboard for a national mobile operator, where he drove the migration from Create React App to Vite and the upgrade to React 18. Strong with data-heavy interfaces, charting, and geospatial maps, backed by hands-on backend experience in Node.js, FastAPI, and SQL Server that makes working with API teams straightforward.

EXPERIENCE

Full Stack Developer - Database Engineer - Huawei Tech Investment | *South Jakarta | Feb 2024 - Present | On Site*

Two consecutive phases within the same client environment: first as a developer on Huawei's internal OWS platform, then modernizing the client's network performance dashboard with external tooling.

Phase 2 - External Stack Development (Jan 2025 - Present)

- Maintained and modernized a network performance monitoring dashboard for a national mobile operator (100+ pages, React), covering 4G/5G, FWA, FTTH, transport, and core network KPIs.
- Migrated the build from Create React App to Vite, fixing broken imports and deprecated library APIs along the way, and reduced total JavaScript bundle size by 35% (3.97 MB to 2.58 MB gzip).
- Broke up a 1.5 MB gzip vendor chunk (FusionCharts, Lottie, html2canvas) into page-level chunks, cutting the largest remaining chunk by 70% to 464 KB, which loads only on the topology page.
- Upgraded React 16 to 18 and key dependencies (axios, jwt-decode, react-leaflet, React Flow) incrementally on a legacy MUI v4 codebase, keeping backend API contracts intact, with no service downtime, 0 npm audit vulnerabilities, and lint warnings cut from 87 to 19.
- Replaced FusionCharts with Highcharts across the app, building reusable chart components (dual-axis, stacked, synced gridlines) on a light/dark theme token system, plus network topology diagrams (React Flow, ELK) and geospatial maps (Leaflet).
- Consolidated the API layer into a single HMAC-signed client with JWT auth and axios interceptors, removing manual request signing from every page.

Phase 1 - Full Stack Development on Huawei OWS (Feb 2024 - Jan 2025)

OWS (Operation Web Services) is Huawei's cloud-based, microservices-driven O&M platform used by telecom operators for end-to-end network monitoring, ticketing, and alarm management.

- Developed web features and workflow scripting for ticketing, alarm processing, and network monitoring on Huawei's OWS platform.
- Kept data-heavy pages responsive through partial loading and pagination for large datasets.
- Customized Material UI components and built dynamic forms and data grid interfaces.

Full Stack Developer - Badan Pemeriksa Keuangan dan Pembangunan (BPKP) | *Mar 2023 - Jan 2024 | On Site*

- Built the frontend with Next.js, Material UI, and Framer Motion, including reusable UI components and page animations.
- Developed the backend API with PHP Lumen and handled frontend and backend integration end to end.

Software Developer / PM Intern - PT Studycle Education & Technology | *Aug 2021 - Jan 2022 | Remote*

- Coordinated a cross-functional team as PM intern, managing timelines to deliver web features on schedule.
- Developed theme components with React, Tailwind CSS, and PostCSS, with a focus on responsive design.
- Worked in Docker-based development environments and collaborated through Bitbucket.

SKILLS

Languages: HTML, CSS, JavaScript, TypeScript, Python, SQL (T-SQL).
Frontend: React, Next.js, Vite, Vue, Nuxt, Redux, Zustand, Pinia, TanStack Query, Tailwind CSS, Material UI, Chakra UI, Mantine UI, Ant Design, Framer Motion.
Data Visualization & Map: Highcharts, Apache ECharts, Recharts, React Flow, Leaflet, Google Maps API, MapTiler.
Testing & Quality: Vitest, ESLint, Prettier.
Backend: Node.js, Express, Hono, Bun, FastAPI, Flask, PHP Lumen, GraphQL.
Database: SQL Server (MSSQL), PostgreSQL, MySQL, MongoDB, Redis, SQLAlchemy.
DevOps & Tools: Docker, GitLab CI, Git, GitHub, pm2, Postman

PROJECTS

E-Bengkel - Automotive Expert System | E-Bengkel
Next.js 14, TypeScript, Tailwind, Zustand, Framer Motion, Recharts

- Rebuilt an academic expert system from scratch using Certainty Factor method across 13 IF-THEN rules.
- Features a 4-step consultation wizard, CF gauge chart, knowledge base viewer, and consultation history with export.

Kaether - Weather Dashboard | Kaether
Nuxt 4, Bun, TypeScript, Tailwind, Pinia, TanStack Query, Leaflet, ECharts, PWA

- Built a full-featured weather dashboard with hourly/7-day forecast, interactive map, AQI, animated backdrops, and offline PWA support.
- Structured using Atomic Design with composables pattern; deployed as static site on Netlify.

Linkdung - Link-in-Bio Platform *(In Development)* | Linkdung
Nuxt 4, TypeScript, Tailwind, Pinia, TanStack Query, Apollo GraphQL, ECharts

- Building the full frontend and SSR layer of a Linktree alternative with cartoon/comic design aesthetic.
- Features OAuth auth, drag & drop link management, analytics dashboard, and live theme customization.

EDUCATION

Sriwijaya University - Bachelor of Computer Science
Aug 2019 - Jan 2023 | GPA: 3.56 / 4.00 | Palembang, Indonesia

VOLUNTEERING

Programming Mentor - Informatics Student Association | *Sep 2020*
Taught fundamental programming skills using Java to a group of 20 students.

Technical Jury - Android App Development Competition | *Oct 2021*
Evaluated and assessed Android applications built by participants, under lecturer supervision.

LANGUAGES

English - Professional Working Proficiency
Indonesian - Native