# Indra Lukmana

Email: indra@indralukmana.com    GitHub: github.com/indralukmana
Website: indralukmana.com    LinkedIn: linkedin.com/in/indralukmana

## PROFILE

As a senior web engineer with almost a decade of experience, I focus on building efficient and user-friendly web applications. My expertise lies in JavaScript, TypeScript, and React, combined with a strong foundation in computer science and UX principles. I am committed to creating accessible and intuitive web solutions that meet diverse user needs.

## EXPERIENCES

**Full-Stack JavaScript Web Engineer — Freelance, Remote**    October 2015 - Present

- Developed diverse web solutions using Next.js, including e-commerce platforms, learning management systems, and web apps with AI-driven features.
- Thrive in remote environments, utilizing diverse asynchronous tools and exceling in both written and verbal communication.
- Worked with diverse web applications across different browsers with focus on performance and responsiveness, e.g: ensuring pages appropriately handled in Server Side Rendering (SSR) or Client Side Rendering (CSR) depending on the page features. With specific uses of these paradigm, applications performance was improved, resulting in better usability, performance, and SEO.
- Integrated Tailwind CSS with different kinds of usages through custom classes, Tailwind UI, DaisyUI, and shadcn/ui appropriate for features and requirements of projects.

Tech: React (Hooks), Next.js, React Native, Node.js (Express), REST APIs, GraphQL, Jotai state management, React Query, Chakra UI, Tailwind CSS, Radix UI, React Hook Form, Swagger, Storybook, TypeScript, Web Socket, Headless CMS, Docusaurus

**Lead Front End Engineer — IMP Studio, Indonesia**    August 2022 - July 2024

- Designed and implemented robust front-end workflows, creating project templates to streamline development across multiple projects, ensuring consistency and efficiency.
- Implemented efficient Git workflows with detailed branching strategies (feature branches, develop, main, etc.). Introduced systematic code reviews via Git Pull Requests and checklists, enhancing code quality and collaboration, reducing conflicts.
- Enforced coding standards with Husky, pre-commit Git hooks, linters, TypeScript types, and Prettier, ensuring code consistency, readability, and quality across the team, reducing technical debt.
- Implemented multi-faceted testing: integrated React Testing Library for integration tests, used Cypress for end-to-end testing to detect and address bugs early, employed Storybook for visual testing, improving maintainability and stability.
- Established automated CI/CD pipelines for seamless deployment using Docker, ensuring well-documented procedures accessible to all team members.
- Collaborated with UI/UX designers and application users to translate designs into MVPs and final products, ensuring high-quality user interfaces and usability. Worked closely with users to ensure the problem-solution fit with good user experience.

Tech: React, Next.js, TypeScript, Chakra UI, Tailwind CSS, Radix UI, Swagger, React Query, React Hook Form

### Lead Front End Engineer — The API Practice, Australia    October 2020 - November 2021

- Implemented optimizations for server-side rendering on Next.js pages, enhancing performance and user experience.
- Created reusable React components and documented their usage using Storybook, streamlining development processes and ensuring consistent UI components.
- Worked closely with the back-end team to develop and document API integrations, ensuring seamless communication between front-end and back-end systems.
- Developed a Web Socket-based synchronization system for collaborative editing, enabling real-time updates and efficient collaboration.
- Built highly interactive drag-and-drop functionalities, enhancing user engagement and ease of use.
- Led the front-end development of a collaboration tool for building JSON-schema, facilitating collaboration within the team on complex data structures.

Tech: TypeScript, Next.js (React), Storybook, Jotai state management, dndkit library for drag-and-drop, Tailwind CSS, Web Socket, React Query, React Hook Form, Swagger UI specifications

### React Native Engineer — Homitag, United States    July 2020 - September 2020

- Contributed to an ongoing mobile e-commerce app project using React Native, enhancing both front-end and back-end functionality.
- Refactored old class components with deprecated lifecycle methods using modern functional components with React Hooks, significantly improving code maintainability and readability.
- Developed and adjusted new and existing features based on evolving requirements, ensuring the app met current user needs and market standards.
- Upgraded outdated and unsupported packages within the app's codebase, leading to a 30% increase in development velocity, improved app stability, reduced bugs and warnings, and a more than 60% improvement in crash analytics.

Tech: React Native (class components and hooks), Redux, Redux-Saga, Android Studio, Google Play Store, Jest

### Senior Front End Engineer — Logique Digital, Indonesia    June 2019 - July 2020

- Developed a web application using Next.js for archiving scientific papers. Leveraged new React technology paradigms such as React hooks and stateful functional components, Next.js, Axios, React Spring, React Bootstrap, CSS-in-JS, and various libraries to create a robust and user-friendly platform.
- Led the development of a mobile app using React Native for HR productivity assessments. Key technologies included React Native (bare workflow), Redux Toolkit, Redux Thunk, React Native Background Geolocation, and React Native Background Fetch. Managed listings on the Play Store and App Store, ensuring smooth deployment and updates.
- Developed a Progressive Web App (PWA) for an online store using Next.js. Utilized React (hooks), context-based state management using React Context, SASS styling, and Firebase Cloud Messaging for push notifications, enhancing user experience and engagement.
- Modernized a legacy Electron.js-based application by updating dependencies and refactoring the codebase with modern approaches. Replaced the deprecated Request package with Fetch API, introduced type safety checks with JSDoc, and restructured prototypes to class-based code. This modernization increased developer velocity by 40% for new feature development.

Tech: TypeScript, JavaScript, Next.js, React (hooks), React Native, React Spring, React Bootstrap, Electron.js, Redux (Redux Toolkit), Redux Thunk, CSS-in-JS, SASS, Axios, Fetch API, Firebase, React Native, Geolocation, SQLite, JSDoc

**WordPress Engineer Intern — Automattic, United States**     September 2018 - December 2018

- Investigated vulnerabilities in WordPress plugins and themes, focusing on OWASP Top 10 web application security risks, to ensure client site security and integrity.
- Created and reviewed Pull Requests for feature enhancements and bug fixes on client sites, contributing to overall code quality and functionality.
- Analyzed logs to identify WordPress errors on client sites, providing detailed suggestions and implementing fixes to improve site performance and stability.
- Provided technical support and guidance to clients, helping them navigate and resolve complex WordPress issues.
- Worked closely with the client development team to implement best practices and improve security measures across various WordPress projects.

Tech: WordPress CMS, WordPress Headless, Grafana, jQuery, JavaScript, PHP

## EDUCATION

| | |
|---|---|
| **Master of Science — University of Edinburgh, United Kingdom** | 2016 - 2018 |
| **Master of Computer Science — Institut Teknologi Sepuluh Nopember, Indonesia** | 2012 - 2014 |
| **Bachelor of Informatics — Institut Teknologi Sepuluh Nopember, Indonesia** | 2006 - 2012 |

## SKILLS

| | |
|---|---|
| React (7+ years) | Next.js (7+ years) |
| TypeScript (7+ years) | JavaScript (9+ years) |
| Node.js (9+ years) | React Native (7+ years) |
| React Query (6+ years) | React Hook Form (6+ years) |
| Swagger (6+ years) | GraphQL (4+ years) |
| REST APIs (8+ years) | Redux (7+ years) |
| Tailwind CSS (6+ years) | Chakra UI (4+ years) |
| Radix UI (4+ years) | Web Sockets (6+ years) |
| Storybook (6+ years) | Jest (6+ years) |
| RTL (6+ years) | Cypress (6+ years) |
| Docker (5+ years) | CI/CD (7+ years) |
| Git (11+ years) | Electron (7+ years) |