Hana Widyatari

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About myself

Experienced in developing web and mobile applications for over two years. Proficiency in TypeScript, JavaScript, React, React Native, and Vue. Focused on writing clean, maintainable code, and optimizing application performance through unit testing and code quality practices. With an engineering background in Geomatics, bringing strong analytical thinking and experience in spatial data acquisition, geospatial analysis, and 3D modeling, which supports the development of data-driven and visualization-intensive applications. A growth-oriented learner who contributes to project success through collaboration, clear communication, and consistent delivery.

Work experience

Junior Frontend Engineer │ Broom.id │ 29/02/2024 - 30/04/2025 | Jakarta, Indonesia

- Developed and optimized cross-platform mobile and web applications leveraging TypeScript, React, and React Native as the tools, driving end-to-end digitalization of core operational workflows and enabling clean, structured data delivery for robust analysis.
- Delivered efficient and scalable data handling architectures by implementing advanced API integrations and managing data flows using redux for state management, significantly enhancing application performance, increasing page interaction speed, and delivering dynamic user experiences across the platform.
- Standardized frontend development and design consistency by collaborating with UI/UX teams to build a Design System package and applying advanced CSS techniques to revamp user interfaces, resulting in reduced development time.
- Implemented Unit Testing strategies using Jest and React Testing Library, optimizing critical functions and achieving a quantifiable 70% reduction in minor production bugs, drastically enhancing application stability and code quality.
- Collaborated closely with cross-functional teams and actively contributed in planning and feedback sessions to identify key feature areas, ensuring technical development remained fully aligned with business strategy and user needs.

Business or sector Financial and insurance activities | **Department:** Product and Technology Department | **Website:** https://broom.id/

Software Engineer │ Mazecare │ 30/09/2022 - 30/11/2023 | Hongkong SAR

- Developed high performance healthcare web applications using TypeScript, Vue.js, and Nuxt.js, delivering highly interactive and stable user-friendly platforms.
- Designed, built, and deployed a critical inventory and stock management module that optimized operational efficiency through real-time tracking and precise inventory control.
- Integrated the third party WhatsApp Business API to establish a secure, two-way communication channel, significantly improving patient, provider, and administrator engagement and support.
- Developed a scalable data architecture on the client side using GraphQL for efficient fetching and implemented Pinia as the state management solution, ensuring optimized, reactive data flow throughout the entire application ecosystem.
- Executed rigorous quality assurance, debugging, and testing to boost application performance, while consulting directly with clients to translate business needs into successful technical solutions and project roadmaps.

Business or sector Other service activities | **Department:** Engineering Department | **Website:** https://www.mazecare.com/

Frontend Developer Intern │ Radya Labs │ 28/02/2022 - 30/04/2022 | Bandung, Indonesia

- Developed and maintained scalable Customer Management System (CMS) web application using TypeScript and React with Next.js ecosystem, ensuring type safety, robust development, and enterprise level maintainability across the entire codebase.
- Implemented efficient state management via Zustand, significantly enhancing application efficiency and ensuring optimized global state synchronization for dynamic content updates.
- Managed seamless, real-time data integration via Axios, proficiently handling complex API connections

and data fetching to ensure optimal client side communication with backend systems.

- Delivered a fully responsive and high performant user experience by implementing advanced frontend optimization techniques, resulting in improved application loading times and interactivity.
- Actively collaborated with cross-functional engineering teams to coordinate technical execution, covering detailed technical specifications into reliable, on-schedule feature releases.

Business or sector Other service activities | **Department:** Engineering Department | **Website:** https://radyalabs.com/id

Education & Training

Full-stack Web Developer │ Binar Academy │ 05/01/2022 - 03/08/2022 │ Jakarta, Indonesia

Developing high performance user interfaces using React and Next.js, building scalable full-stack applications with the MERN stack, designing RESTful APIs, and managing complex state with Redux. Ensuring code quality with ESLint, verifying reliability through Jest testing, and streamlining deployment using GitHub Actions–based CI/CD workflows and Git version control.

Field(s) of study: Information and Communication Technologies | **Final grade:** 4.8 / 5.0

Bachelor of Engineering │ Sepuluh Nopember Institute of Technology │ 08/08/2015 - 08/08/2019 │ Surabaya, Indonesia

Acquiring, managing, analyzing, and visualizing spatial data to model the Earth and its features accurately through the application of Photogrammetry (3D modeling from imagery), Geodesy (precise positioning and boundary determination), Hydrography (underwater mapping), Remote Sensing (satellite and sensor-based data acquisition),

and Geographic Information Systems (GIS) for spatial data management and analysis.

Field(s) of study: Engineering, manufacturing and construction | **Final grade:** 3.58 / 4.00 | **Number of credits:** 146 | **Thesis:** Developing A Virtual Reality GIS (VR-GIS) of Cultural Heritage Building Site. Case Study: Sari Temple, Yogyakarta

Skills

Software Engineer │ TypeScript │ JavaScript │ React │ Next Js │ React Native │ Vue │ Bootstrap and Tailwind CSS │ HTML │ CSS │ Python │ Git │ PostgreSQL │ GraphQL │ Rest API │ Unit Testing │ UI Testing, Debugging & Web Performance │ Jest/testing-library │ CI/CD │ MongoDB

Geospatial Engineering │ MATLAB │ Agisoft │ ArGIS │ 3D Modeling

Cross Functional & Business Alignment │ Communication │ Collaboration Cross Functional Team │ Technical Documentation

Honours and Awards

International Commtech Integrated Initiative 2017 │ International Office ITS │ 29/11/2025

Serving as a featured speaker at the *International Commtech Integrated Initiative* 2017 (an international forum hosted by the International Office of ITS), the project team presented and demonstrated a technological innovation, successfully elevating the student-level work into an international showcase.

BIG 2017 Geo-Innovation Bootcamp The Best 25 Innovation │ Badan Informasi Geospasial (BIG) Indonesia │ 10/10/2017

Demonstrated and articulated end to end development of advanced geospatial technology, achieving Top 25 Innovation recognition at the Badan Informasi Geospasial Indonesia 2017 Geo-Innovation Bootcamp.

PKM KC 2017 Funded Stage │ Ministry of Education, Culture, Research, and Technology of Indonesia │ 19/07/2017

Awarded as a funded team under the prestigious PKM KC 2017 scheme by the Ministry of Education, Culture, Research, and Technology of Indonesia. Developed and executed a technology-based social innovation project.