JUAN VERREL TANUWIJAYA

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I am a Software Engineer with a Bachelor's degree in Informatics Engineering from Institut Teknologi Sumatera. I specialize in Full-Stack Web Development, focusing on designing, developing, and maintaining scalable web applications and robust API systems. My work involves ensuring seamless integration between front-end interfaces, back-end logic, and database layers to deliver efficient, high-performance solutions. I am proficient in modern web technologies and frameworks such as Next.js, React.js, Express.js and NestJS, as well as in managing relational databases using SQL and non-relational databases using MongoDB along with ORM for streamlined data interactions.

Work Experiences

Institut Teknologi Sumatera - Kabupaten Lampung Selatan, Indonesia   Mar 2024 - Nov 2025

Full Stack Website Developer, Freelance

Sumatera Institute of Technology is a public university in South Lampung, Lampung, Indonesia. ITERA has three departments and 40 undergraduate programs, with 1 postgraduate program in physics.

- Developed website as full stack website developer for OBE (Outcome-based education) System of Institut Teknologi Sumatera Curriculum Evaluation and Monitoring

PT Microdata Indonesia - Bandar Lampung, Indonesia   Jul 2024 - Aug 2024

Fullstack Website Developer, Internship

Software House Companies located in Bandar Lampung which is engaged in the Software Development and Graphic Design

- Developed Helpdesk SIPD Web Application as Fullstack using Next.js
- Remaking Front-End of IPKD Website using React.js

Education Level

Institut Teknologi Sumatera - Kabupaten Lampung Selatan   Aug 2021 - Aug 2025

Bachelor of Informatics Engineering, 3.87/4.00

- Developed an Outcome-Based Education (OBE) Monitoring and Evaluation System

Binar Academy ⊘ - Kota Jakarta Selatan   Sep 2024 - Dec 2024

Certificate in MSIB - Studi Independen : BACK END JAVASCRIPT - With AI Literacy & Global Certification

- Fundamental JavaScript: Identifying Basic JavaScript Concepts
- Advanced JavaScript: Identifying Advanced JavaScript Concepts
- Databases and Data Management with PostgreSQL
- Developing APIs using Node.js, Express.js, and Prisma
- Understanding the Importance of API Documentation, Testing, and Securing Applications with Authentication
- Ability to Manage Media within the Application and Perform Deployment using GitHub Actions
- Understanding the Production Debugging Process and Utilizing WebSockets and Mailer to Support Feature Development on the Web
- Collaborating in an Application Development Team through Iterative Testing and Evaluation Processes via GitHub Repository
- Score: 94/100

Dicoding Indonesia ⊘ - Kota Tangerang Selatan   Feb 2024 - Jun 2024

Certificate in MSIB - Studi Independen : Pengembang React Dan Back-End

- Learning to Build Front-End Web Applications
- Learning to Build Back-End Applications
- Learning to Build Web Applications with React
- Learning the Fundamentals of Web Applications with React
- Becoming an Expert React Web Developer
- Building a Career as a Software Developer
- Capstone Project : Web Application
- Score : 1145 / 1200

SMA Immanuel - Bandar Lampung   Jul 2018 - May 2021

Senior High School

Organisational Experience

KKN - Developing a WebGIS system for Dusun 1, Girimulyo Village.   Oct 2023 - Jan 2024
Head of the WebGIS Development Work Program
KKN Unit 1 - Desa Girimulyo

- Designing and developing the user interface (UI) of a website using the Next.js framework and Tailwind CSS.
- Collaborating with the ArcMap development team to configure the ArcGIS Online API so that the maps created can be integrated and used within the website.

Skills and Project

- **Hard Skills**: HTML, CSS, Python, JavaScript, Typescript, Node.js, React.js, Next.js, Express.js, NestJS, MongoDB, PostgreSQL, ORM
- **Soft Skills**: Problem-solving, Teamwork, Adaptability, Creativity.
- **PKPP ITERA Website** (2025): A full-stack web application built for PKPP (Pusat Kurikulum dan Pengembangan Pembelajaran) ITERA, featuring a modern public website and comprehensive admin dashboard. Serving as a comprehensive platform for academic services and information dissemination. The public website showcases PKPP's services, organizational structure, and staff directory, while providing dynamic news articles with multi-image carousels and an program calendar displaying ongoing and completed initiatives with date-based status tracking.
- **ITERA OBE System** (2024): Primary management tool for Curriculum Evaluation and Monitoring at Institut Teknologi Sumatera. A university-grade curriculum management system for tracking student learning outcomes. full course management with CPMK and prerequisite mapping, multi-template assessment frameworks with configurable criteria and weighted scoring, and an automated RPS generator for weekly lesson plans, assessment schedules, and multi-level approval workflows. Implemented advanced grade management with manual and Excel batch import/export, real-time validation, and auto-recalculation. Delivered performance analytics dashboards, a role-based access control system for seven user types integrated with the university's OAuth2 SSO, curriculum mapping to program outcomes, portfolio and statistical reporting tools, and automated data sync for enrollment and faculty assignments.
- **Air Hopper** (2024): This platform enables users to search, book, and manage flight tickets seamlessly, leveraging cutting-edge technologies to ensure an exceptional user experience. My responsibilities include developing and maintaining secure and efficient APIs using Express.js. (Back-End Developer)
- **Helpdesk SIPD (Sistem Informasi Pembangunan Daerah)** (2024): Helpdesk SIPD (Sistem Informasi Pembangunan Daerah) is a comprehensive web-based helpdesk application designed to enhance the efficiency of problem reporting and resolution within regional government systems. (Fullstack Website Developer)
- **Otak Atik: Aplikasi Belajar Untuk Semua** ⊘ (2024): Otak Atik is a website-based online learning platform that allows users to learn and teach a variety of materials without being limited to basic subjects. With broad material flexibility, Otak Atik enables users to explore and instruct in various disciplines according to their interests and needs, providing access to more comprehensive and varied learning compared to platforms that only offer school materials. (Fullstack Website Developer)
- **ThreadTree Forum App** ⊘ (2024): ThreadTree is an innovative forum application developed using React.js, with Redux.js for efficient state management. Designed for open discussions on any topic, ThreadTree features a robust voting system and a dynamic leaderboard to highlight popular contributions. (Front-end Website Developer)
- **Dusun 10 Desa Giri Mulyo Village Website** ⊘ (2024): The Dusun 10 Desa Giri Mulyo Village Website is a comprehensive platform designed to showcase and inform about Dusun 10 in Desa Giri Mulyo. This website features detailed descriptions of the village, its location, and its rich cultural heritage. (Front-end Website Developer))
- **Posyandu Mawar I Wayhuwi Data Management Website** (2023): The Posyandu Mawar I Way Huwi Data Management Website is an advanced application designed to efficiently manage patient data for Posyandu Mawar I Way Huwi. (Fullstack Website Developer)