

# Budi Santoso

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Senior Software Engineer with 5+ years building scalable web applications across fintech, e-commerce, and enterprise sectors. Proven expertise in frontend architecture, performance optimization, and leading cross-functional engineering teams. Passionate about developer experience and delivering high-impact solutions.

## Professional Experience

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### Institut Teknologi Bandung

AI Research Assistant | Python, HuggingFace, OpenAI API, LangChain

Bandung, Indonesia

Aug 2022 – Feb 2024

AI and Machine Learning Research Lab at School of Electrical Engineering and Informatics.

- Published research paper on Indonesian NLP by fine-tuning LLaMA and GPT models for low-resource language tasks using HuggingFace Transformers.
- Built RAG-based question answering system achieving 88% accuracy by integrating OpenAI embeddings with FAISS vector store and LangChain.
- Developed prompt engineering framework reducing hallucination rate by 40% through chain-of-thought and few-shot learning techniques.
- Created automated evaluation pipeline for LLM outputs by implementing Python scripts with OpenAI API and HuggingFace datasets.

### Tiket.com

Jakarta, Indonesia

Senior Frontend Engineer | React, TypeScript, GraphQL, Node.js

Mar 2024 – Present

Indonesia's leading online travel and entertainment booking platform.

- Reduced booking flow load time by 35% by redesigning the page loading pipeline using React Suspense and lazy loading patterns.
- Architected a micro-frontend system serving 5M+ monthly users by implementing Module Federation with Webpack 5 and React.
- Decreased API response handling time by 40% by migrating REST endpoints to GraphQL with Apollo Client.
- Improved mobile web performance score from 45 to 85 by implementing code splitting, lazy loading, and image optimization strategies.
- Established frontend testing culture achieving 70% coverage by introducing Jest unit tests and Cypress E2E automation.

### Bukalapak

Jakarta, Indonesia

Software Engineer, Frontend | Next.js, React, TypeScript, Redis

Jan 2021 – Jul 2022

One of Indonesia's leading e-commerce marketplaces and digital payment platforms.

- Boosted search page load speed by 55% by implementing server-side rendering with Next.js.
- Increased seller dashboard adoption by 30% by leading a team of 3 engineers to rebuild the interface using React and TypeScript.
- Reduced production bugs by 60% by championing TypeScript strict mode adoption across 12 frontend repositories.
- Automated 8 manual deployment processes by building CI/CD pipelines using GitHub Actions and Docker.
- Mentored 4 junior developers through pair programming sessions, resulting in 2 promotions within the team.

### Mekari

Jakarta, Indonesia

Frontend Developer | Vue.js, Nuxt.js, TypeScript, Storybook

Feb 2020 – Dec 2020

HR and accounting SaaS platform for SMEs.

- Accelerated feature delivery by 35% by building a shared component library with 50+ reusable components using Vue.js and Storybook.
- Reduced customer support tickets by 25% by redesigning the onboarding flow based on user research and analytics data.
- Improved developer onboarding time from 2 weeks to 3 days by creating comprehensive documentation and coding standards.
- Migrated legacy jQuery codebase to Vue.js, eliminating 15K lines of technical debt and improving maintainability.

## Xtremax

*Junior Frontend Developer | React, JavaScript, SASS, Webpack*

Bandung, Indonesia

Jun 2019 – Jan 2020

*Regional digital agency specializing in web and mobile applications for government and enterprise clients.*

- Delivered 6 client projects on time by developing responsive web applications using React and SASS.
- Reduced bundle size by 45% by configuring Webpack code splitting and tree shaking for production builds.
- Improved website accessibility scores to WCAG AA compliance by implementing semantic HTML and ARIA attributes.

## Freelance

*Web Developer | HTML, CSS, JavaScript, WordPress*

Remote, Indonesia

Jan 2018 – May 2019

*Independent freelance web development.*

- Completed 12 freelance projects with 5-star ratings by delivering custom WordPress themes and landing pages.
- Generated Rp 50M+ in client revenue by building e-commerce websites with WooCommerce integration.

## Education

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### Institut Teknologi Bandung

2022 – 2024

*M.Kom. Computer Science (3.85/4.00)*

Indonesia

### Universitas Padjadjaran

2014 – 2018

*S.Kom. Informatics (3.65/4.00)*

Indonesia

## Skills

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**Languages:** Python, TypeScript, JavaScript

**AI/ML:** LangChain, OpenAI API, HuggingFace, RAG, Prompt Engineering, FAISS

**Backend:** Node.js, Express.js, GraphQL, REST APIs

**Frontend:** React.js, Next.js, Vue.js, Nuxt.js

**DevOps:** Docker, Kubernetes, AWS, GCP, GitHub Actions, Jenkins

**Databases:** PostgreSQL, MongoDB, Redis

**Testing:** Jest, Cypress, Playwright, React Testing Library

**Tools:** Git, Webpack, Vite, Figma, Jira

**Methodologies:** Agile, Scrum, CI/CD, TDD, Code Review