KAREL TRISNANTO UTOMO

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EXECUTIVE SUMMARY

Software Developer with 3+ years of experience in web and mobile application development, with hands-on experience building and deploying production-ready applications. Proficient in modern frontend technologies including React, Next.js, Vue.js, JavaScript, and Tailwind CSS, with additional experience in backend development using Laravel, PHP, Python, and Flask. Experienced in system analysis, database design, server configuration, and application deployment, with a strong track record of success in national and international software development competitions. Passionate about building scalable, user-focused digital products and continuously improving software engineering skills.

KEY HIGHLIGHTS

- 3+ Years Software Development Experience.
- 8+ National & International Competition Achievements.
- Multiple 1st Place Web Development & Innovation Awards.
- Full-Stack Web & Mobile Development Experience.

EDUCATION

Bachelor of Applied Science in Informatics Engineering, Universitas Harkat Negeri 2022 - 2026

- GPA: 3.99
- Relevant Coursework: Basic Programming, Data Structures and Algorithms, Web Development, Databases, Operating Systems, Computer Networking, Software Engineering, Object-Oriented Programming, Artificial Intelligence, Machine Learning and Deep Learning, Linux System Administrator, System Design and Analysis, Advanced Programming.

WORKING EXPERIENCES

Web Developer, Universitas Harkat Negeri July 2023 - September 2023

- Collaborated with a development team to design and develop a web-based application for a KEMENDIKBUD-funded student creativity program.
- Developed responsive and reusable frontend interfaces using Vue.js and Tailwind CSS.
- Integrated frontend components with application functionality to support project requirements and user workflows.

Web and Mobile Developer, SkillUp November 2023 - February 2024

- Collaborated with a development team to build and deliver two digital products consisting of a web application and a mobile application.
- Developed responsive web applications using React, Next.js, and Tailwind CSS based on client requirements.
- Developed cross-platform mobile applications using React Native and Tailwind CSS.
- Applied Git-based workflows for source code management, collaboration, and feature development within the team.

Software Developer, Community Service at Vocational High School March 2024 - June 2024

- Designing a database for the student internship selection recommendation website application.
- Create backend functions for data exchange and data management.
- Design the user interface design.

Fullstack Web Developer, PT. Indodata Solusi Persada August 2025 - January 2026

- Analyzed business and system requirements for an Internet Service Provider (ISP) company.
- Designed and developed a web-based system to support and manage ISP operational workflows.
- Designed database structures and implemented application functionality based on business requirements.
- Configured Linux servers and deployed web applications to production environments.
- Worked across frontend, backend, database, and server infrastructure to support end-to-end application development.
- Developed the application using Laravel, PHP, JavaScript, and MySQL.

ORGANIZATIONAL EXPERIENCES

Member, ForTI August 2022 - 2024

- Participated in technology-related events, research activities, and software development competitions organized by the Informatics Engineering student community.
- Collaborated with the development team in preparing and developing projects for national student competitions.
- Contributed to team discussions, project preparation, and technical implementation during competition activities.

Public Relations, Industrial Visit Committee Team January 2024 - February 2024

- Identified and contacted potential IT companies for an academic industrial visit program.
- Prepared and communicated visit proposals and coordinated with company representatives throughout the planning process.
- Verified company information and ensured the selected companies met the requirements of the industrial visit program.

IT Support, INVOFEST 2024 September 2024 - October 2024

- Provided technical support to ensure the smooth operation of IT-related activities during the INVOFEST 2024 event.
- Assisted with technical preparation, troubleshooting, and on-site support throughout the event.
- Coordinated with the event team to address technical issues and maintain smooth event operations.

Competition Division, ForTI October 2024 - January 2025

- Mentored and monitored ForTI members participating in national and regional technology competitions.
- Shared information about relevant IT competitions and assisted members in identifying suitable opportunities.
- Supported members throughout competition preparation, including project development, technical preparation, and presentation readiness.

HONORS & AWARDS

- **1st Place of Informatics Engineering Competition, State University of Jakarta** 2023
  Web Development - Mental Health Platform .

- **Winner of National Student Creativity Program Funding Incentives (PKM-KC 2023)** 2023
  BaikMU-SelfCare - Mental Health Application
- **1st Place of IN-FEST Web Dev Competition, PGRI University of Semarang** 2024
  Web Platform for Vocational High School Students.
- **BEST SPIRIT CATEGORY, State Polytechnic of Jakarta and BAKORMA** 2024
  Top award among 600+ registered teams; Clean Water Innovation Prototype.
- **2nd Place of IN-FEST Web Dev Competition, PGRI University of Semarang** 2025
  AI-Based Agricultural Platform.
- **1st Place of International Innovation Technology Expo (IITE 2025)** 2025
  AI-Based Smart Agriculture Application.
- **Winner of National Student Creativity Program Funding Incentives (PKM-GFT 2026)** 2026
  Mixed Reality Smart Glasses for Education in 3T Regions.
- **1st Place of International Innovation Technology Expo (IITE 2026)** 2026
  AI-Based Hydrometeorological Disaster Application.

TECHNICAL SKILLS

- **Language:** Indonesia, English
- **Frontend:** HTML5, CSS3, JavaScript, jQuery, React, Next.js, Vue.js, Bootstrap, Tailwind CSS, SCSS/SASS, shadcn/ui, Radix UI
- **Backend:** PHP, Laravel, Python, Flask
- **Database:** MySQL, MongoDB
- **AI/ML:** Machine Learning, Deep Learning, Computer Vision
- **DevOps & Infrastructure:** Git, GitHub, Linux, Server Administration, Proxmox, Application Deployment
- **Tools:** VS Code, Figma, Selenium, Oracle Data Modeler