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Top Skills

SQLite
Full-Stack Development
JavaScript

Adinata Alaudin Pranaja

Full Stack Web Developer | Purwadhika Graduate | University of
Indonesia Computer Science & Information System Student
Jakarta, Indonesia

Experience

Kementerian Sekretariat Negara RI
Full Stack Developer
August 2025 - Present (2 months)
Jakarta, Indonesia

Developed a secure personnel management information system for Indonesian defense institutions. Built full-stack web application with PHP/MySQL backend, responsive frontend, and comprehensive admin features. Implemented user authentication, document management, and real-time data processing capabilities. Enhanced operational efficiency through digital transformation of personnel administration processes.

Key Achievements:

Designed and built a scalable full-stack web application using PHP 8.4+, MySQL database, and modern JavaScript ES6+ with responsive CSS3/HTML5 frontend architecture. Implemented comprehensive multi-layered security framework including robust user authentication, role-based access control (RBAC), session management, and strict compliance with government security standards.

Developed secure RESTful API endpoints for real-time data processing, integrated file upload and validation systems, and optimized database queries to enhance system performance and reliability. Created professional, responsive UI/UX design with comprehensive admin dashboard featuring advanced analytics, personnel oversight capabilities, and intuitive navigation interfaces.

Built secure document management system with validation protocols, storage optimization, and streamlined workflow processes for handling sensitive personnel data. Successfully delivered digital transformation solutions that streamlined administrative processes, improved data accessibility for authorized personnel, and significantly enhanced operational efficiency across Indonesian defense institutions.

Key Skills:

Full-Stack Web Development • Government/Defense Sector Experience • Database Design & Management • Security Implementation • UI/UX Design • API Development • Document Management Systems • Project Leadership

Personal Projects

Full Stack Developer – Capstone Project

June 2025 - Present (4 months)

Jakarta, Indonesia

Advanced Security Implementation:

AES Encryption: Implemented robust AES encryption for QR code generation ensuring data security

Single-Use Token System: Developed secure single-use token mechanism to prevent QR code duplication and fraud

HMAC Validation: Added cryptographic validation to ensure QR code integrity

Real-Time Performance Solutions:

Firebase Real-Time Database: Integrated Firebase real-time listeners for instant attendance tracking updates

Live Dashboard: Built responsive real-time dashboard displaying attendance metrics and event analytics

Instant Notifications: Implemented real-time notification system for event organizers

Cross-Platform Mobile Optimization:

Camera API Integration: Developed cross-browser compatible QR scanner using native Camera API

Mobile-First Design: Ensured seamless functionality across all mobile browsers and devices

Progressive Web App Features: Implemented PWA capabilities for native app-like experience

Complex State Management:

React Context Architecture: Designed scalable state management using React Context API

Custom Hooks: Built reusable custom hooks for complex business logic

Component Optimization: Implemented efficient component architecture for optimal performance

Technical Stack:

Frontend: React.js, Context API, Custom Hooks, Responsive Design

Backend: Firebase (Authentication, Firestore, Real-time Database)

Security: AES Encryption, HMAC Validation, Single-use Tokens

Mobile: Camera API, Cross-browser Compatibility, PWA Features

Key Features Delivered:

Secure QR code generation with encryption

Real-time attendance tracking and scanning

Bulk guest import/export functionality

Advanced analytics and reporting dashboard

Multi-user admin management

CSV export capabilities

Professional event management interface

Education

University of Indonesia

Undergraduate, Computer Science · (August 2023)

Purwadhika Digital Technology School

Student, Full-Stack Web Developer · (August 2024 - January 2025)

University of Indonesia

Undergraduate, Information System · (July 2025)