Irsyan Ramadhan

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Summary

Software Engineer with a strong foundation in modern web development, specializing in the JavaScript ecosystem (React, Next.js) and Backend technologies (Golang, Express.js). Experienced in building scalable internal tools, implementing secure authentication (RBAC), and utilizing Docker for containerized deployment. Proven track record of delivering production-ready applications in corporate environments (BUMN) and leading research initiatives with high technical accuracy.

Education

Syiah Kuala University — Sept 2021 – August 2025

Bachelor of Engineering, Computer Engineering

- Cum Laude – GPA: 3.67/4.00

- Thesis: Development of a Mobile Application for Autistic Children's Face Classification Using MobileNetV3.

- Publication: INFOTEL Journal – Institut Teknologi Telkom Purwokerto, Vol. 17, No. 3. DOI: 10.20895/infotel.v17i3.1363 ↗

Experience

Staff Engineering IT Intern — November 2025 – Present

PT Wijaya Karya (Persero) Tbk

- Engineered scalable full-stack solutions (Progress Report App and Lesson Learned System) using **React.js** and **Golang**, designed to centralize project data and enhance real-time monitoring efficiency for the Strategic Project Management division.

- Enforced enterprise-grade security standards by implementing Role-Based Access Control (RBAC), Bcrypt hashing, and strict input validation to prevent XSS/SQL injection vulnerabilities on sensitive corporate data.

- Optimized deployment workflows using Docker for containerization to ensure environment consistency, and developed automated reporting modules (PDF Export) to reduce manual administrative overhead.

Web Developer Trainee – Smart Tourism PBL — October 2025 – November 2025

BPVP Banda Aceh – Ministry of Manpower (Kemnaker RI)

- Selected for an intensive 200-hour Project Based Learning (PBL) program focused on Smart Tourism Information Systems.

- Developed a comprehensive web-based platform for managing tourism destinations and information.

- Completed the certification with "Passed" status, demonstrating competency in system analysis and web development life cycle.

Research Team Leader (PKM-KC) — February 2024 – December 2024

Ministry of Education, Culture, Research, and Technology Funding

- Led a 4-member team in a prestigious national research grant to develop *AutiVision*.

- Managed the end-to-end development of a Flutter mobile app integrated with MobileNetV2 (98% accuracy).

- Successfully secured official Intellectual Property Rights (HAKI) and managed project budgeting and reporting.

Programming Laboratory Assistant — August 2024 – December 2024

Syiah Kuala University

- Supervised 30+ students in Python Fundamental Programming (Data types, OOP, Algorithms).

- Provided code reviews and debugging support to enhance students' problem-solving skills.

Machine Learning Cohort – Bangkit Academy 2023 — August 2023 – January 2024

Led by Google, Tokopedia, Gojek, & Traveloka

- Collaborated in a cross-disciplinary team to develop a garbage classification model using MobileNetV3 (92% accuracy), strengthening skills in Python and TensorFlow.

Projects

Borbore Official – Corporate Website 🌐 borboreofficial.id
Export-Quality Coffee Profile for PT Agro Beans Global

- Developed a corporate platform using **Next.js** and **Tailwind CSS** to establish an international digital presence.
- Implemented responsive, mobile-first design to ensure seamless user experience across devices.
- Optimized website performance (fast loading, smooth navigation) to enhance user engagement.

Finance Management Dashboard (Personal Project) ⭘ Source Code
Modern Expense Tracker with Glassmorphism Design

- Designed a visually stunning interface using **Vue 3** and **Tailwind CSS** with smooth animations.
- Integrated **Supabase** for real-time transaction tracking and Google OAuth authentication.

Real-Time Quiz Management System July 2024 – September 2024
Computer Multi Challenge Day (CMD 2024)

- Built an online quiz platform using **React.js** and **Firebase** for 30+ concurrent participants.
- Developed an admin dashboard for real-time score monitoring and deployed using Safe Exam Browser.

Organizational Experience

PSDM Staff – HIMATEKKOM January 2024 – December 2024
Syiah Kuala University

- Designed and implemented a skills development program, increasing member participation by 20%.

Event Coordinator – HIMATEKKOM National Seminar October 2024
Syiah Kuala University

- Coordinated a national seminar with 80+ participants, secured sponsorship, and managed event logistics.

Skills

Programming Languages: JavaScript, TypeScript, Python, Dart, Go (Golang), PHP, HTML5, CSS3

Frameworks: React.js, Next.js, Vue.js, Flutter, Tailwind CSS, Node.js, Express.js

Database: PostgreSQL, Firebase, Supabase, MySQL

Tools: Docker, Git, Figma, Postman, Canva

Soft Skills: Leadership, Project Management, Teamwork, Problem Solving, Communication, Critical Thinking