

ADITYA PRAYOGA

Engineering Lead/Senior Engineer (Laravel & JavaScript) — IT Instructor — ISTQB CTFL
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Summary

Experienced Software Engineer with 5+ years strong background in building and maintaining national-scale government platforms (personnel, submissions, certification, environmental, logistics). Focus on modular Laravel architecture, secure RBAC + audit/event logging, performance optimization (sub-second critical flows), and BPMN/UML traceability into testable backlog with disciplined regression & review gates.

Impact Highlights

- Modernized legacy personnel data management (SIPP 2.0) into a centralized, OTP-secured platform with advanced search and self-service document workflows (award: Kapolri Gold Pin).
- Compressed multi-agency submission processing (BOS V2) from 3 months to 3 weeks by digitizing workflow, integrating external REST APIs (OSS, BNPB, Polri Data Lake), and automating verification.
- Led development of SIDANAU national lake information portal centralizing authoritative datasets to support evidence-based conservation policy and inter-agency collaboration.
- Digitized e-certificate issuance (BNSP Information System) and integrated online signing to establish a predictable two-week submission SLA through workflow refactoring and validation automation.
- Delivered sustained performance gains (sub-second p95 on critical paths) via targeted query/index tuning, strategic caching, and load balancing (HAProxy) across core platforms.
- Strengthened security and compliance posture through refined RBAC granularity and comprehensive audit/event logging coverage for privileged operations.
- Instituted modular boundaries, regression test discipline, and requirements traceability (analysis to backlog to validation) reducing defect-driven rework and clarification churn.
- Mentored and upskilled engineers (reviews, pairing, ISTQB-aligned test design); delivered 15+ multi-topic technical training sessions (PHP Laravel, Java, JavaScript, testing, version control).

Core Competencies

Backend & Architecture: PHP Laravel (modular monolith), REST API design, Requirements & System Analysis (BPMN/UML)

Frontend: React/Next.js, Vue, TailwindCSS

Database: MySQL, PostgreSQL, Redis (caching), MongoDB (log/event store)

Performance & Security: Performance optimization, Scalability, RBAC, Audit & Event Logging, OWASP basics

Quality: ISTQB CTFL (v4, 2024), Test Design, Regression & Unit testing, Static analysis

Delivery & Leadership: Tech lead, Code review, Traceability, Agile iterative delivery, Mentoring

Tooling: Git (GitHub/GitLab), CI/CD (GitHub Actions, GitLab CI), Docker (development), Postman

Domain: Personnel (SIPP 2.0), Online Submissions (BOS V2, AMDALNET), Certification (BNSP), Education (e-KIAT Guru), Environmental & Scientific (SIDANAU, PIJAR BMKG), Logistics (SiLog Polri)

Professional Experience

BrainmaticsID / PT Brainmatics Indonesia Cendekia

Mar 2019 – Present

Role Progression: Training Staff, Software Staff, Engineering Lead / Software Manager

Engineering Lead / Software Manager

Jan 2022 – Present

- Set technical direction & release governance across policing, certification, and environmental solutions (multi-system integrations).
- Guided modular refactoring and architectural boundary definition improving code navigability and dependency clarity.

- Embedded regression suite + code review gates reducing post-release fixes and stabilizing release cadence.
- Produced concise internal guides (review checklist, design patterns) and facilitated mentoring.
- Coordinated cross-stakeholder alignment (requirements scoping, risk triage, delivery sequencing).

Software Staff (Full Stack Developer)

Mar 2019 – Jan 2022

- Built and maintained Laravel & JavaScript modules (authentication, RBAC, reporting, integration endpoints).
- Converted business inputs into BPMN / Use Case artifacts and testable user stories.
- Refactored legacy components reducing duplication and simplifying logic paths.
- Implemented caching and indexing for high-volume reporting endpoints to improve responsiveness.

Training Staff (Software Engineer Focus)

Mar 2019 – Dec 2019

- Standardized training environment readiness and supporting technical lab materials.
- Assisted delivery of foundational development, testing, and version control sessions.

Additional Experience

IT Course Instructor

Feb 2022 – Present

- Delivered 15+ instructor IT courses (Laravel, Java, JavaScript, testing, version control, ISTQB prep) to 100+ participants (Allo Bank, Perum Perhutani, Bea & Cukai, universities); 4.5/5 satisfaction score.
- Developed reusable training materials, assessment rubrics, and ISTQB-aligned scenario banks standardizing test design practices and reducing prep overhead.

Selected Projects

SIPP 2.0 (SDM POLRI) (*Programmer — Laravel, Next.js, PostgreSQL, Optimization*) 2020–2021
Developed SIPP 2.0, modernizing legacy personnel data management into a centralized, OTP-secured, searchable platform with user-friendly self-service document workflow. Recognized with Kapolri Gold Pin.

BOS V2 (KORBINMAS POLRI) (*Senior Programmer — Laravel, REST APIs, PostgreSQL*) 2021–2023
Built online submissions platform with multi-external system REST API integrations (OSS, BNPB, Polri Data Lake); cut end-to-end submission processing SLA from 3 months to 3 weeks via digitized workflow and integrated online verification.

SIDANAU (BRIN) (*Tech Lead — Laravel, Next.js, PostgreSQL*) 2023
Led development of a national lake information platform (SIDANAU) centralizing authoritative lake data to support conservation policy, inter-agency collaboration, and long-term environmental planning.

BNSP Information System (*Tech Lead — Laravel, MySQL, REST APIs*) 2024–Present
Directed team delivery (70% leadership / 30% hands-on). Refactored the submission process to meet a two-week SLA by digitizing the end-to-end e-certificate workflow and integrating online digital signing.

Certifications & Awards

Kapolri Gold Pin (Performance/Security impact on SIPP 2.0, 2021)

ISTQB Certified Tester (CTFL v4, 2024) – Score 92.5% (37/40), ID: 24-CTFL 4-249385-12

Education

Universitas Indraprasta PGRI (UNINDRA) – B.Sc. Information Technology 2019 – 2025
(Expected)

SMK N 2 Salatiga – Computer & Information Sciences 2015 – 2018

Languages

Bahasa Indonesia (Native); English (Professional Working Proficiency)