# M. Ilham Aji Saputra

**Full-Stack Web Developer**

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## SUMMARY

Full-Stack Web Developer and Informatics Engineering fresh graduate (GPA 3.92/4.00) with hands-on experience building end-to-end web applications, designing RESTful APIs, and integrating Large Language Models (LLMs) into real workflows. Proficient in Next.js, React.js, TypeScript, Node.js, Express.js, PHP (Laravel), and SQL databases (MySQL, PostgreSQL), with cloud experience on Google Cloud Platform (GCP), Docker, Supabase, and Firebase. Built a text summarization module using a pretrained model. Adaptive in both individual and team-based work, motivated, and a quick learner with a growth mindset. Ready to relocate and work in other cities.

## TECHNICAL SKILLS

**Frontend:** React.js, Next.js, JavaScript (ES6+), TypeScript, HTML5, CSS3, Tailwind CSS, Blade Templates, Responsive Design, Mobile-First UI

**Backend:** Node.js, Express.js, Laravel, PHP, Python, Java, RESTful API Design, Server-Side Business Logic, Authentication

**Databases:** SQL, NoSQL, MySQL, PostgreSQL, Supabase, Firebase, Database Schema Design

**Cloud & DevOps:** Google Cloud Platform (GCP), Cloud Run, Docker, Terraform, Microservices, Continuous Deployment, Git, GitHub

**AI & Data Processing:** LLM Integration, Groq API, Llama 3.3 70B, PyMuPDF, Regex Preprocessing, Document Processing Pipelines, Structured Response Parsing, Data Visualization

**Professional Skills:** Cross-Functional Collaboration, Problem Solving, Peer Learning, Visual Design Sense

## PROFESSIONAL EXPERIENCE

### Full-Stack & AI Integration Engineer | PT Tiga Serangkai Inti Corpora

*Jan 2026 – Jun 2026*

- Engineered an end-to-end, automated AI-driven Learning Material Search System using React.js on the frontend and Llama-3.3-70B via the Groq API for LLM processing.
- Built document processing pipelines covering document validation, PyMuPDF text extraction, Regex preprocessing, and structured response parsing.
- Optimized frontend client services and backend API calls, achieving a 100% parsing success rate and an average latency of 4.84 seconds per document.
- Collaborated with editorial teams to streamline reference document analysis workflows and improve user interface responsiveness.

### Full-Stack Web Developer | Tiga Serangkai University

*Mar 2025 – Sep 2025*

- Developed a web-based Scholarship Student Monitoring System using Laravel, Blade templates, JavaScript, and CSS.
- Designed and optimized database schemas, server-side business logic, and secure RESTful APIs for real-time frontend-backend synchronization.
- Implemented administrative dashboards, data visualization charts, and form validations to track scholarship student data accurately.

### Full-Stack Web Developer | PAUD Desa Banaran

*Sep 2023 – Dec 2023*

- Architected and built a responsive landing page and online student admission portal using React.js and Tailwind CSS.
- Integrated cloud backend services (Supabase/Firebase) for user authentication, real-time database management, and article content storage.
- Delivered mobile-first UI design patterns and interactive registration forms that streamlined the school's enrollment process.

## ORGANIZATIONAL EXPERIENCE

**Member | All Visual Capture (ALVIC) Student Organization, Tiga Serangkai University**
*2023 – 2025*

- Took part in study club sessions and hands-on practice in photography, videography, and graphic design, building practical visual content production skills.
- Applied visual design practice to develop an eye for layout, composition, and visual communication that supports user interface and frontend work.

**Member | CIT Student Organization, Tiga Serangkai University**
*2022 – 2023*

- Participated in a programming and coding study club, practicing software development fundamentals together with fellow students.
- Strengthened core programming skills and collaborative learning habits through regular coding practice and peer knowledge sharing.

## EDUCATION

**Bachelor of Informatics Engineering | Tiga Serangkai University**
*Sep 2022 – Nov 2026*

- GPA: 3.92 / 4.00 in the Bachelor of Informatics Engineering program.
- Applied full-stack development skills to real projects, including a web-based Scholarship Student Monitoring System built with Laravel.
- Participated in GEMASTIK XVIII, the national student ICT competition (Kemdiktisaintek RI & Telkom University).
- Active in student organizations: CIT (programming study club, 2022–2023) and ALVIC (visual study club, 2023–2025).

**Cloud Computing Cohort | Bangkit Academy led by Google, Tokopedia, Gojek, & Traveloka**
*Sep 2024 – Dec 2024*

- Architected and deployed full-stack web application microservices on Google Cloud Platform (GCP) within a cross-functional capstone team.
- Implemented containerized deployments using Docker, configured RESTful API gateways, and integrated cloud databases with web frontends.

**Vocational High School Diploma, Software Engineering | SMK Negeri 2 Surakarta**
*Mar 2018 – Jul 2021*

- Final Grade: 89.6 / 100 in the Software Engineering program.
- Built a foundation in programming and software development that led into university-level Informatics Engineering studies.

## CERTIFICATIONS

- Application Development with Cloud Run | Google Cloud
- Build Infrastructure with Terraform on Google Cloud | Google Cloud
- Menjadi Google Cloud Engineer | Dicoding Indonesia
- Code Generation and Optimization Using IBM Granite | IBM SkillsBuild
- Participant, GEMASTIK XVIII | Kemdiktisaintek RI & Telkom University
- English Proficiency Test (TOEFL Prediction: 500) | Lembaga Bahasa LIA

## LANGUAGES

Indonesian (Native) | English (Working Proficiency)