



Ragil Amirzaky

Computer Science Student

✉ lapness21@gmail.com

☎ +6285849512305

📍 Pontianak, Indonesia

🔗 beacons.ai/lapness21

🐙 github.com/lapnes

📄 SUMMARY

highly curious **5th-semester** Computer Science student (3.95+ GPA) with a robust foundation in backend architecture and infrastructure automation. Proven ability to engineer scalable cloud systems (PaaS/IaaS), optimize critical backend endpoints, and manage bare-metal deployments using modern virtualization and declarative IaC. Driven by a passion for continuous learning and rigorous algorithmic problem-solving, I am seeking to leverage my technical expertise in a comprehensive professional development program to accelerate my career as a high-impact Software Engineer.

🛠 EXPERIENCE

Apr 2026 – Present
Pontianak, Indonesia

REGtee Cloud (Independent Project), Infrastructure Engineer

- Architected a sovereign PaaS/IaaS platform using Proxmox, KVM, and LXC to transform local bare-metal servers into scalable, enterprise-grade cloud environments.
- Engineered a Zero-Trust network architecture with a Single SSH Gateway and Fast Reverse Proxy (FRP) to successfully bypass ISP CGNAT restrictions.
- Orchestrated asynchronous CI/CD deployment pipelines utilizing Golang, Dagger, and Nixpacks for zero-touch container image assembly.
- Designed distributed logical networks and security routing via OPNsense and OVN, projecting up to an 80% reduction in operational infrastructure costs.

Feb 2026 – Present
Pontianak, Indonesia

Chronicles-OJ (Online Judge System), Junior Backend Engineer

- Engineered critical backend endpoints for automated grading recalculation and robust data validation, ensuring strict scoring accuracy.
- Currently developing communication modules (feat/Announcement and feat/Clarification) to streamline future interactions between participants and system administrators.
- Designing and implementing team-based capabilities tailored for the "Strategi Algoritma" course to align the platform with UNTAN Informatics curriculum requirements.
- Maintained industry-standard code quality by strictly adhering to a Pull Request workflow, passing rigorous code reviews from an industry Senior Engineer, and executing staging tests prior to main repository deployment.

Jan 2025 – Present
Pontianak, Indonesia

Personal Enterprise-Grade-like Infrastructure, Infrastructure & DevOps Engineer (Homelab)

- Assembled a bare-metal server from scratch (Dual Xeon E5) and automated Proxmox provisioning using Terraform and Ansible, establishing a declarative Infrastructure-as-Code (IaC) workflow.
- Hosted diverse 24/7 workloads—including custom IoT backends, game servers, and collaboration tools—by engineering a custom ingress pipeline to bypass CGNAT.
- Integrated Cloudflared and Caddy for HTTP/S routing, alongside a custom Go-based gateway and FRP to multiplex complex TCP/UDP traffic, allocating a single, auditable port per service.
- Architected a hybrid virtualization strategy using Alpine LXC and nested Docker. This delivered precise resource allocation while providing a familiar environment for the dev team, bypassing the operational overhead of Kubernetes.
- Enforced strict network isolation utilizing OPNsense and a Cisco managed switch, segmenting traffic into granular VLANs (Admin, Tenant, Guest) detached from the ISP router.
- Developed a decoupled Go/HTML CI/CD provisioning worker, accessed exclusively via secure SSH tunneling, to automate repository polling and deployments without exposing the control plane.

Dec 2025 – Feb 2026
Pontianak, Indonesia

Kitasan Doorlock, IoT Firmware & Backend Engineer

- Programmed secure ESP32 firmware utilizing PROGMEM for SSL certificate (.pem) storage, integrating an AS608 fingerprint reader with precise NTP time synchronization.
- Architected a robust backend worker for MQTT communication, enforcing multi-level device-to-database validation, endpoint whitelisting, and fully SSL-encrypted database operations.
- Implemented real-time biometric template synchronization between the microcontroller and database, maintaining comprehensive access audit logs.
- Designed a fault-tolerant architecture featuring a secure, remote web-based override mechanism to ensure continuous accessibility during edge-case failures.

 EDUCATION

Aug 2024 – Present
Pontianak, Indonesia

Universitas Tanjungpura, Bachelor of Computer Science (Sarjana Komputer / S.Kom)

- Currently in the 4th semester of the Informatics Engineering study program.
- Cumulative GPA: 3.95+ / 4.00
- Relevant Coursework: Algorithm Strategies, Data Structures, and Computer Networks.

 SKILLS

Version Control		Algorithms & Data Structures	
Backend Architecture		Infrastructure as Code	
Network Engineering & Security		Team Collaboration	
Problem Solving			

 LANGUAGES

Indonesian		English	
Mother language(s)		B1	

 HOBBIES AND INTERESTS

- Gaming
- Target Shooting