

Seno Pamungkas Rahman

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RESEARCH INTERESTS

- Cloud Computing and Cloud Infrastructure
- Query Processing and Performance Optimization in Distributed Systems
- Cloud Databases and Large-Scale Data Management
- Data Privacy and Security in Cloud-Based Systems

EXPERIENCE

PLATFORM ENGINEER – Contract

September 2025 - Present

XLSmart (Jakarta Selatan)

- Engineered a high-concurrency Go tool to automate weekly End-of-Support (EOS) and capacity reporting across ~100 AWS accounts and ~100 GCP projects, slashing manual report generation time from 45 minutes to under 3 minutes.
- Built a Go utility to audit Kubernetes clusters at scale, querying EKS clusters to gather PodDisruptionBudget (PDB) and HPA data for cross-team resilience analysis.
- Designed and implemented key Grafana dashboards to centralize observability, visualizing CPU/Memory from multiple Prometheus datasources and tracking AWS service capacity (EC2, RDS, EKS).
- Developed 'Kluster-Compare', a full-stack internal tool (Go backend, Next.js frontend) to visualize and diff Kubernetes manifests between live clusters (Rancher) and GitOps states (ArgoCD), streamlining Blue/Green deployment validation.
- Optimized container deployments by implementing multi-stage Docker builds (using scratch/distroless images) for internal tooling, reducing image size and hardening security posture for Kubernetes deployments.
- Engineered an automated AMI compliance scanner in Go to track Amazon Linux 2 to 2023 migration progress across Karpenter nodepools and EKS Managed Node Groups in 50+ AWS accounts.
- Conducted deep-dive performance assessments on AWS RDS, identifying bottlenecks and recommending composite indexing strategies that optimized query execution for high-volume transaction tables.
- Integrated internal audit tools with Microsoft Graph API to automatically generate and upload formatted Excel reports to SharePoint, eliminating manual data entry for weekly capacity reviews.
- Streamlined operational reporting workflows by automating data collection from disparate cloud sources (AWS, GCP, K8s), significantly reducing administrative overhead for the Cloud Operations team.
- Refactored legacy automation scripts into modular Go packages, improving code maintainability, error handling, and enabling easier collaboration within the engineering team.
- Orchestrated the periodic patching and upgrade cycles for EKS node groups, ensuring compliance with security standards by migrating workloads from Amazon Linux 2 to AL3.
- Led cost-optimization initiatives by building automated scanners to identify underutilized EC2 instances and detached EBS volumes, facilitating data-driven resource rightsizing decisions.

TECHNICAL SUPPORT – Internship

December 2024 - June 2025

Superbank (Jakarta Selatan)

- Managed end-to-end deployment of vendor-provided scripts across AWS EC2 (Dev/Staging) via S3 bucket integration, WinSCP file transfers, and XML configuration adjustments.
- Automated deployment workflows by developing a PowerShell script to extract ZIP files and configuration for deployment processes, reducing manual effort by 40% and accelerating deployment cycles.
- Resolved production incidents (e.g., CPU spikes, SQL query bottlenecks) by acting as a technical liaison, analyzing root causes, and escalating issues via Jira tickets to cross-functional teams.

FIXED CONNECTIVITY, ICT & CLOUD – Internship

February 2024 - June 2024

PT XL Axiata Tbk (Jakarta Selatan)

- Conducted **comprehensive market research** and **data scraping** using **Python, BeautifulSoup, and Pandas** to identify **growth opportunities** and assess the competitive landscape for satellite products.
- Presented **data-driven findings** and **strategic recommendations** to mentors and senior management to support **informed business strategy** and **product development**.
- Collaborated closely with **cross-functional teams** to ensure timely completion of tasks and seamless **integration of research insights** into project outcomes.

FULLSTACK WEB DEVELOPER – Internship

September 2023 - November 2023

PT Bank Victoria International (Jakarta Selatan)

- Developed **dynamic journal booking tables** on the frontend with **Flutter**, integrating advanced **filtering** (by date and booking type), **pagination**, and **soft deletion** functionalities.
- Integrated the Flutter frontend with backend APIs built in NestJS** and maintained data consistency with **MySQL**, ensuring accurate real-time accounting records.
- Executed **targeted database queries** to correct and optimize data integrity, working in close collaboration with teams to align front-end displays with updated backend data.

EDUCATION

Universitas Indonesia

September 2021 – September 2025

- GPA:** 3.78/4.0
- Coursework:** Computer Architecture, Operating System, Real Time System and IoT, Computer Networks, Software Engineering, Cloud Computing

PROJECTS

VXLANG SECURITY ANALYSIS (THESIS)

[cattyman919/skripsi-project](#) ↗

- Developed multiple C++ test applications (Console, Qt, Dear ImGui) and cryptographic benchmarks using CMake, Ninja, and Clang, integrating the VxLang SDK to implement granular virtualization on critical execution paths.
- Conducted in-depth **static and dynamic analysis** using Ghidra and x64dbg, demonstrating a **>90% reduction** in identifiable symbols and successful obfuscation of control flows against standard debugging techniques.
- Applied virtualization to a functional **Remote Administration Tool (Lilith RAT)** to test operational integrity and analyzed detection evasion capabilities against 72 antivirus engines via VirusTotal.

YAZI (OPEN SOURCE)

[sxyazi/yazi](#) ↗

- Developed a **real-time task progression system** for file copying operations, replacing static status messages with a visual progress bar, byte transfer metrics, and file counts.
- Engineered the solution by modifying the core Rust task logic ('yazi-core') to track I/O states and updating the Lua-based UI components ('yazi-plugin') for rendering.
- Navigated a large, complex open-source codebase to implement the feature, successfully merging the contribution to enhance user feedback for long-running operations.

SKILLS

- IELTS Academic:** 7.0
- Hard Skill:** Database Systems, Web Development, Fullstack Engineer, Networking, Internet of Things, Machine Learning
- Soft Skill:** Teamwork, Communication, Adaptability, Responsibility, Creativity, Discipline, Honesty
- Programming Languages:** C, C#, C++, Go, Javascript, HTML, CSS, Python, Typescript, Java, PHP, Dart, Rust
- Database:** PostgreSQL, MySQL, NoSQL

- **Frameworks & Misc:** React, NestJS, NextJS, Flutter, Spring Boot, ExpressJs, Docker, Tailwind CSS, Git, Linux
- **Certificate (2025):** Red Hat System Administration I & II (RH134 - RHA) - Ver. 9.3
- **Certificate (2024):** AWS Knowledge: Cloud Essentials
- **Certificate (2023):** CCNA: Enterprise Networking, Security, and Automation
- **Certificate (2023):** CCNA: Switching, Routing, and Wireless Essentials
- **Certificate (2023):** CCNA: Introduction to Networks

AWARDS

Top 10 Finalist Hackathon BI 2024

August 2024

Bank Indonesia

- Top 10 Finalist in **Bank Indonesia Hackathon 2024** out of 2,200 participants and 450+ proposals
- Spearheaded the development of BitTrack's Frontend and UI/UX, ensuring a seamless user experience and visually appealing design, while also driving the business strategy and direction of the product.