Seno Pamungkas Rahman

⌂ Tangerang Selatan | ✉ senop.rahman@gmail.com | ☎ +62-812-9357-8560 | 🔗 https://senop.dev

in Seno | ⌥ cattyman919

RESEARCH INTERESTS

- Intelligent Software Testing and Automated Verification
- Optimization of Distributed Algorithms and Protocols
- Mobile Commerce Systems and Application Development
- Software Reliability and Performance Engineering

EDUCATION

Universitas Indonesia   September 2021 – September 2025

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

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**.
- **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**.
- **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.
- **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**.
- **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**.

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- **Designed and implemented** key **Grafana** dashboards to centralize observability, visualizing **CPU/Memory** from multiple **Prometheus** datasources and tracking **AWS service capacity** (EC2, RDS, EKS).
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- **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.
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- **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.
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- **Led cost-optimization initiatives** by building automated scanners to identify **underutilized EC2 instances** and detached **EBS volumes**, facilitating data-driven resource rightsizing decisions.

CLOUD OPERATIONS – Contract   September 2025 - Present
XLSmart (*Jakarta Selatan*)
- **Engineered a high-throughput data aggregation engine** in **Go** to process metrics from **~200 distributed cloud environments**, optimizing data collection latency by **93%**.
- **Enforced data privacy and security standards** by implementing automated compliance auditing for **Kubernetes** and **AWS IAM**, ensuring secure access control to critical infrastructure.
- **Conducted deep-dive performance assessments** on **AWS RDS**, identifying bottlenecks and recommending **composite indexing strategies** that optimized query execution for high-volume transaction tables.
- **Streamlined** operational reporting workflows by **automating data collection** from disparate cloud sources (AWS, GCP, K8s), significantly **reducing administrative overhead** for the Cloud Operations team.

TECHNICAL SUPPORT – Internship   December 2024 - June 2025
Superbank (*Jakarta Selatan*)
- **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.
- **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.
- **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**.

TECHNICAL SUPPORT – Internship   December 2024 - June 2025
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- **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**.
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FIXED CONNECTIVITY, ICT & CLOUD – Internship   February 2024 - June 2024
PT XL Axiata Tbk (*Jakarta Selatan*)
- Developed **automated data ingestion pipelines** using **Python (Pandas)** and **BeautifulSoup** to scrape and structure large datasets for market analysis and **strategic data mining**.
- Presented **data-driven findings** and **strategic recommendations** to mentors and senior management to support

informed business strategy and **product development**.

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*)

- **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.
- Developed **dynamic journal booking tables** on the frontend with **Flutter**, integrating advanced **filtering** (by date and booking type), **pagination**, and **soft deletion** functionalities.

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PT Bank Victoria International (*Jakarta Selatan*)

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- **Integrated the Flutter frontend with backend APIs built in NestJS** and maintained data consistency with **MySQL**, ensuring accurate real-time accounting records.
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FRONTEND WEB DEVELOPER – Internship   September 2022 - October 2022
MileApp (*Jakarta Barat*)

- **Rebuilt and redesigned** critical web pages (**landing, login, and registration**) from scratch using **React** and **styled-components**, contributing to a major UI overhaul aimed at **improving user experience and performance** for field agents and administrators.
- Collaborated remotely with supervisors to integrate the new **React-based frontend** with the platform's evolving product direction, **replacing legacy code with scalable, maintainable components**.

FRONTEND WEB DEVELOPER – Part-time   February 2021 - October 2022
Furaha System (*Tangerang Selatan*)

- Engineered **complex exam pages** for a comprehensive E-Learning platform using **Next.js**, incorporating **navigation bars**, **dynamic question-sidebars**, and **real-time answer tracking**.
- Collaborated with **cross-functional teams** and **maintained regular progress updates**, ensuring alignment with project milestones and timely delivery of platform enhancements.

CLOUD OPERATIONS – 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).

- **Investigated and resolved** a production **memory leak** in a microservice by performing deep-dive analysis and tracing using **Datadog** and **Kubernetes CLI** tools.
- **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**.
- **Created** a **Grafana health-check automator** that validates **Prometheus datasource connectivity** via the **Grafana API**, ensuring high availability of observability dashboards for critical Telco applications.
- **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**.
- **Enhanced cloud security posture** by developing custom audit tools to detect exposed **Security Groups**, unencrypted **EBS volumes**, and **WAF** misconfigurations across a multi-account environment.
- **Strengthened** access control mechanisms by implementing **AssumeRole** patterns in automation tools, removing the need for static long-lived credentials in scripts.
- **Led cost-optimization initiatives** by building automated scanners to identify **underutilized EC2 instances** and detached **EBS volumes**, facilitating data-driven resource rightsizing decisions.
- **Managed and maintained** Kubernetes infrastructure health, ensuring configuration consistency between **Blue/Green environments** via **ArgoCD** and **Rancher**.
- **Improved system observability** by consolidating **Prometheus** metrics into unified **Grafana** dashboards, providing real-time visibility into **cluster health** and resource capacity planning.

PROJECTS

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** (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**.