

Seno Pamungkas Rahman

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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
<ul style="list-style-type: none">• 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
<p><i>XLSmart (Jakarta Selatan)</i></p> <ul style="list-style-type: none">• 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
<p><i>Superbank (Jakarta Selatan)</i></p>	

- 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.

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.

PROJECTS

AUTO CV

[cattyman919/resume](#) ↗

- Streamlined CV creation by developing a tool that generates multiple customized PDF versions from a modular data source split across three YAML files ('general', 'experiences', 'projects'), eliminating repetitive manual editing.
- Engineered a concurrent build process using Go's goroutines and waitgroups, significantly cutting down generation time for multiple CVs.
- Containerized the entire build environment with Docker, ensuring consistent and reproducible builds across different machines.

MOVIEDB SHOWCASE

[cattyman919/movies](#) ↗

- Architected a backend API using Go and the Gin framework to serve as a proxy for the TMDB API, handling

requests for popular, top-rated, and upcoming movies.

- Developed a responsive frontend with **React**, **TypeScript**, and **Tailwind CSS** to display movie data fetched from the backend, creating an interactive user experience.
- Containerized the entire application (**Go backend**, **React frontend**, **MongoDB**) using **Docker** and **Docker Compose**, and wrote integration tests with **Testcontainers** for the database layer.

RESTOMATIC

Sistem Basis Data 2023/RestoMatic ↗

- Engineered a responsive and intuitive user interface with **React** and **Tailwind CSS**, leading the frontend development to enhance user engagement.
- Implemented a secure payment system with **frontend validation**, ensuring sufficient balance before processing transactions.

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.