

# Seno Pamungkas Rahman

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## RESEARCH INTERESTS

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

## EDUCATION

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Universitas Indonesia	September 2021 – September 2025
<ul style="list-style-type: none"><li>• <b>GPA:</b> 3.78/4.0</li><li>• <b>Coursework:</b> Computer Architecture, Operating System, Database System, Real Time System and IoT, Computer Networks, Software Engineering, Cloud Computing</li></ul>	

## EXPERIENCE

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PLATFORM ENGINEER – Contract	September 2025 - Present
<p><i>XLSmart (Jakarta Selatan)</i></p> <ul style="list-style-type: none"><li>• Engineered a high-concurrency <b>Go</b> 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.</li><li>• Built a <b>Go</b> utility to audit Kubernetes clusters at scale, querying EKS clusters to gather PodDisruptionBudget (PDB) and HPA data for cross-team resilience analysis.</li><li>• Designed and implemented key Grafana dashboards to centralize observability, visualizing CPU/Memory from multiple Prometheus datasources and tracking AWS service capacity (EC2, RDS, EKS).</li><li>• 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.</li><li>• 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.</li><li>• 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.</li><li>• Conducted deep-dive performance assessments on AWS RDS, identifying bottlenecks and recommending composite indexing strategies that optimized query execution for high-volume transaction tables.</li><li>• 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.</li><li>• Streamlined operational reporting workflows by automating data collection from disparate cloud sources (AWS, GCP, K8s), significantly reducing administrative overhead for the Cloud Operations team.</li><li>• Refactored legacy automation scripts into modular Go packages, improving code maintainability, error handling, and enabling easier collaboration within the engineering team.</li><li>• 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.</li><li>• Led cost-optimization initiatives by building automated scanners to identify underutilized EC2 instances and detached EBS volumes, facilitating data-driven resource rightsizing decisions.</li></ul>	

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.

## **PROJECTS**

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#### **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**

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- **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

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### 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.