

# 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

## EDUCATION

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

CLOUD OPERATIONS – Contract	September 2025 - Present
<i>XLSmart (Jakarta Selatan)</i> <ul style="list-style-type: none"><li>• Engineered a <b>high-throughput data aggregation engine</b> in Go to process metrics from ~200 distributed cloud environments, optimizing data collection latency by 93%.</li><li>• Enforced <b>data privacy and security standards</b> by implementing automated compliance auditing for Kubernetes and AWS IAM, ensuring secure access control to critical infrastructure.</li><li>• Conducted deep-dive <b>performance assessments</b> on AWS RDS, identifying bottlenecks and recommending <b>composite indexing strategies</b> that optimized query execution for high-volume transaction tables.</li><li>• Streamlined operational reporting workflows by <b>automating data collection</b> from disparate cloud sources (AWS, GCP, K8s), significantly <b>reducing administrative overhead</b> for the Cloud Operations team.</li></ul>	

TECHNICAL SUPPORT – Internship	December 2024 - June 2025
<i>Superbank (Jakarta Selatan)</i> <ul style="list-style-type: none"><li>• Resolved production <b>incidents</b> (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.</li><li>• Automated deployment workflows by developing a <b>PowerShell script</b> to extract ZIP files and <b>configuration</b> for deployment processes, reducing <b>manual effort</b> by 40% and accelerating deployment cycles.</li><li>• Managed end-to-end <b>deployment</b> of vendor-provided scripts across AWS EC2 (Dev/Staging) via <b>S3 bucket integration</b>, WinSCP file transfers, and <b>XML configuration adjustments</b>.</li></ul>	

FIXED CONNECTIVITY, ICT & CLOUD – Internship	February 2024 - June 2024
<i>PT XL Axiata Tbk (Jakarta Selatan)</i> <ul style="list-style-type: none"><li>• Developed <b>automated data ingestion pipelines</b> using Python (Pandas) and BeautifulSoup to scrape and structure large datasets for market analysis and <b>strategic data mining</b>.</li><li>• Presented <b>data-driven findings</b> and <b>strategic recommendations</b> to mentors and senior management to support <b>informed business strategy</b> and <b>product development</b>.</li></ul>	

FULLSTACK WEB DEVELOPER – Internship	September 2023 - November 2023
<i>PT Bank Victoria International (Jakarta Selatan)</i> <ul style="list-style-type: none"><li>• Integrated the Flutter frontend with backend APIs built in NestJS and maintained data consistency with MySQL, ensuring accurate real-time accounting records.</li></ul>	

- 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.

## PROJECTS

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### VXLANG SECURITY ANALYSIS (THESIS)

[cattyman919/skripsi-project](#) ↗

- Investigated **data privacy protection methods** through **code virtualization** and obfuscation techniques, demonstrating a **>90% reduction** in symbol visibility against reverse engineering attacks.
- Conducted in-depth **static and dynamic analysis** using **Ghidra** and **x64dbg** to validate the integrity of protected binary data.
- 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.

### 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 (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

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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.