

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

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

EXPERIENCE

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**.

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**.

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.


PROJECTS

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

- **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**.