

# 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"><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

TECHNICAL SUPPORT – Internship	December 2024 - June 2025
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<i>Superbank (Jakarta Selatan)</i>	
<ul style="list-style-type: none"><li>• Managed <b>end-to-end 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><li>• Automated deployment workflows by developing a <b>PowerShell script</b> to extract ZIP files and <b>configuration for deployment processes</b>, reducing manual effort by 40% and accelerating deployment cycles.</li><li>• Resolved production incidents (e.g., CPU spikes, SQL query bottlenecks) by acting as a technical liaison, <b>analyzing root causes</b>, and escalating issues via <b>Jira tickets</b> to cross-functional teams.</li></ul>	December 2024 - June 2025

FIXED CONNECTIVITY, ICT & CLOUD – Internship	February 2024 - June 2024
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<i>PT XL Axiata Tbk (Jakarta Selatan)</i>	
<ul style="list-style-type: none"><li>• Conducted <b>comprehensive market research</b> and <b>data scraping</b> using Python, BeautifulSoup, and Pandas to identify <b>growth opportunities</b> and assess the competitive landscape for satellite products.</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><li>• Collaborated closely with <b>cross-functional teams</b> to ensure timely completion of tasks and seamless <b>integration of research insights</b> into project outcomes.</li></ul>	February 2024 - June 2024

FULLSTACK WEB DEVELOPER – Internship	September 2023 - November 2023
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<i>PT Bank Victoria International (Jakarta Selatan)</i>	
<ul style="list-style-type: none"><li>• Developed <b>dynamic journal booking tables</b> on the frontend with Flutter, integrating advanced <b>filtering</b> (by date and booking type), <b>pagination</b>, and <b>soft deletion</b> functionalities.</li><li>• Integrated the Flutter frontend with backend APIs built in NestJS and maintained data consistency with MySQL, ensuring accurate real-time accounting records.</li><li>• Executed <b>targeted database queries</b> to correct and optimize data integrity, working in close collaboration with teams to align front-end displays with updated backend data.</li></ul>	September 2023 - November 2023

FRONTEND WEB DEVELOPER – Internship	September 2022 - October 2022
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<i>MileApp (Jakarta Barat)</i>	
<ul style="list-style-type: none"><li>• Rebuilt and redesigned critical web pages (<b>landing, login, and registration</b>) from scratch using React and <b>styled-components</b>, contributing to a major UI overhaul aimed at <b>improving user experience and performance</b>.</li></ul>	September 2022 - October 2022

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

### 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**.

### AUTOCV

[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.

### JSLEEP

[cattyman919/JSleep](#) ↗

- Developed a complete RESTful API using **Java** and **Spring Boot** to manage the entire hotel booking lifecycle, from user authentication to room reservations.
- Engineered a custom, lightweight database solution using a **JSON-based file system (JsonDBEngine)**, enabling persistent data storage and retrieval without a traditional database server.
- Implemented core business logic for dynamic room filtering, availability checking based on booking dates, and a complete payment processing system including balance management and voucher application.

## 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.