

# Seno Pamungkas Rahman

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in Seno | 🐙 cattyman919

## 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

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

## EXPERIENCE

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**TECHNICAL SUPPORT – Internship**

December 2024 - June 2025

*Superbank (Jakarta Selatan)*

- **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

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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**.

### 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.

### 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**  
Bank Indonesia

August 2024

- 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.**