

Seno Pamungkas Rahman

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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.

EXPERIENCE

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.

EDUCATION

Universitas Indonesia

September 2021 – September 2025

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

SKILLS

- Hard Skill:** Web Development, Android 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