

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
• GPA: 3.78/4.0	

• **Coursework:** Computer Architecture, Operating System, Database System, Real Time System and IoT, Computer Networks, Software Engineering, Cloud Computing

EXPERIENCE

TECHNICAL SUPPORT – Internship	December 2024 - June 2025
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<i>Superbank (Jakarta Selatan)</i>	
• 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
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<i>PT XL Axiata Tbk (Jakarta Selatan)</i>	
• 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
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<i>PT Bank Victoria International (Jakarta Selatan)</i>	
• 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
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<i>MileApp (Jakarta Barat)</i>	
• 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**.

PROJECTS

DANCERTOS

[cattyman919/AbsenceSystem](#) ↗

- Led the end-to-end development of the DanceRTOS attendance system, building both the **Flutter frontend** and **NestJS backend**.
- Engineered a real-time student login system using **MQTT** and **RFID** on an **ESP32**, enabling secure and instantaneous attendance tracking.
- Designed and implemented a dynamic class schedule and attendance table, providing lecturers with an organized and **real-time view of student presence**.

ELECTRONIC VAULT LOCK

[rroiii/Electronic-Vault-Lock](#) ↗

- Authored and optimized the **VHDL code** for the electronic vault lock, ensuring robust and reliable security.
- Conducted extensive simulations in **ModelSim** to validate the system's performance and identify potential vulnerabilities.
- Led the synthesis of the design in **Quartus**, optimizing for area and power to create an efficient and compact solution.

VAIO (VACUUM ALL IN ONE)

[VAIO-CE/VAIO-Code](#) ↗

- Architected a modular and scalable codebase in **C++** on the **PlatformIO IDE**, enabling efficient team collaboration and future development.
- Engineered a real-time gyroscope-based control system with **ESP-NOW**, allowing for intuitive and responsive robot control via a wearable glove.
- Implemented a multi-threaded **FreeRTOS** environment to manage concurrent tasks, ensuring seamless switching between autonomous, gesture, and PS4 control modes.

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 (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.