

Gerald Darryl Joseph Manurung

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High-achieving Informatics student (GPA 3.88/4.00) and Google Student Ambassador in Indonesia, selected from the top 2.5% of 81,000+ applicants. Specialized in Security Engineering and Full-Stack Development, with a track record of building end-to-end encrypted (E2EE) systems and AI-driven NIST compliance platforms. Proficient in technical vulnerability analysis, cryptography (AES/RSA), and security operations using Wazuh, Wireshark, and Burp Suite. A proven leader with experience managing cross-functional teams for large-scale IT events and evangelizing technology to 100+ students.

Projects

WHISPRX | An End-to-End Web-based Messaging Application

Live demo: <https://whisprx.vercel.app>

Github: <https://github.com/geraldman/whisprx>

- Engineered a secure, end-to-end encrypted (E2EE) messaging platform using Next.js and Firebase. Ensured private communication for 100+ users.
- Implemented hybrid cryptography protocols, such as AES-256 and RSA, for client-side encryption. Ensured messages remain inaccessible to the server and third parties.
- Designed a real-time messaging architecture utilizing Firebase Realtime Database to manage concurrent connections and achieve low-latency message delivery.
- Optimized backend performance by reducing redundant real-time listeners and implementing lightweight caching, while resolving race conditions through an idempotent and convergence-based flow that improved system efficiency, reliability, and reduced server latency.

Assetra | AI-Powered Cybersecurity Governance & Auditing Platform

- Developing a robust Next.js frontend utilizing App Router and Typescript to deliver specialized dashboards for URL integrity checks, real-time risk scoring, and organizational role management.
- Engineering an Express.js backend integrated with Supabase for secure authentication and relational data management, ensuring high-availability for security-analysis services.
- Implementing an AI-driven assessment engine that leverages LLMs to provide context-aware explanations for NIST compliance gaps, translating complex risk scores into actionable security strategies.

Experience

Google Student Ambassador Indonesia

Student Ambassador

April 2026 - Present • Hybrid

- Selected as one of 2000 ambassadors from a pool 81,000+ applicants to represent Google's mission and technology on campus,
- Promoting the adoption of Google Cloud and Gemini AI tools, facilitating hands-on sessions for 100+ students to improve digital literacy and solution building,
- Collaborated with a network of student leaders to share best practices for deploying Google technology in academic research and project management.

Computing Atmosphere (COMPSPHERE) 2026

Supervisor

February 2026 - Present • Cikarang, West Java

- Oversee and lead the strategic execution of COMPSPHERE, the largest annual IT event hosted by President University Faculty Association (PUFA) of Computer Science, managing four distinct sub-events: Hacksphere (Hackathon), Festsphere (Festival), Exposphere (IT project showcase), and Talksphere (Workshops and Seminars).
- Coordinate cross-functional teams across technical and logistics departments to ensure seamless, high-quality event delivery.
- Secure external partnerships and guest speakers to enhance the event's professional prestige and networking opportunities.

Computing Atmosphere (COMPSPHERE) 2025

Lead Hackathon Organizer

February 2025 - November 2025 • Cikarang, West Java

- Led the COMPSPHERE first-ever hackathon, overseeing end-to-end planning and execution of a 48-hour national-level competition,

- Helped establish the first hackathon format in COMPSHERE history, setting a foundation for future large-scale tech competitions
- Managed a core team of 6 hackathon organizers and coordinated event operations for 87 competing participants from multiple universities and institutions
- Strengthened capabilities in leadership, large-scale event management, cross-team coordination, and high-pressure problem solving

Education

President University

S.Kom.

August 2024 - Present • Cikarang, West Java

- Cumulative GPA: 3.88 / 4.00
- Relevant Coursework: Data Structure and Algorithms, Ethical Hacking, Network Security, Artificial Intelligence, Software Engineering, Cryptography and Data Security, and Security Risk Management and Audit.
- Research and Analysis: Conducting academic research on the correlation between social habits and academic performance, utilizing data collection and statistical analysis techniques.

Technical Skills

Languages: C++, Python, Typescript, Bash, Java, PHP

Web Development: React, Next.js (App Router), Express.js, Laravel, Tailwind CSS

Cybersecurity: Wireshark, Wazuh, Burp Suite, NIST CSF, Cryptography, Web Security Best Practices

Tools & Version Control: Git

Certifications

Introduction to Cybersecurity (Cisco) • Certified Junior Web Developer (BNSP)

Languages

English (Fluent) • Indonesian (Native)