Muhammad Ichsan Junaedi

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Information Systems student and Security Engineer Intern with hands-on experience in threat detection, security automation, and enterprise SIEM monitoring. Proven track record in triaging and investigating complex security alerts, conducting in-depth artifact analysis, and analyzing malicious threat actor infrastructure. Adept at developing custom automation scripts for threat intelligence enrichment, designing centralized security monitoring dashboards, and authoring operational playbooks to streamline incident response workflows. Detail-oriented, analytical, and committed to enhancing organizational threat visibility and accelerating incident triage efficiency.

WORK EXPERIENCES

PT. Cynnex Integrasi Solusi – Jakarta, Indonesia Oct 2026 – Present
Security Engineer Intern

- Architected and documented a centralized Email Security Overview Dashboard on Elastic Stack (Kibana) featuring 25 specialized panels across 8 operational domains to visualize threat indicators, authentication status, and real-time FortiMail logs.
- Developed a modular Python automation tool integrating VirusTotal and AbuseIPDB REST APIs to automate reputation scoring, ASN analysis, and IOC validation (IPs, domains, hashes), significantly accelerating alert triage workflows.
- Investigated and triaged targeted email security alerts mapped to the MITRE ATT&CK framework (T1566 - Phishing/BEC), performing deep-dive artifact analysis on email headers, SPF/DKIM/DMARC compliance, and malicious VPS infrastructures to distinguish True Positives from False Positives.
- Authored comprehensive SOC investigation playbooks and incident response guidelines, establishing standardized criteria for alert verdicts (True Positive with/without impact vs. False Positive) and task complexity classification across the security team.

Mantul Assistant AI – AI-Powered Career Ecosystem – Remote Sept 2026 – Dec 2026
Full-Stack AI Software Engineer

- Designed and implemented the end-to-end architecture of an AI-driven WhatsApp career platform using FastAPI, Docker, and Meta WhatsApp Cloud API with HMAC SHA-256 signature verification.
- Implemented an intelligent vector search (pgvector) and hybrid RAG pipeline on OpenAI gpt-4o-mini, enabling verified career consultation, semantic job matching, and context-aware fallback labeling.
- Created an end-to-end CV evaluation and synthesis engine evaluating 6 ATS metrics and auto-generating structured revision drafts in PDF and DOCX formats.
- Built an administrative review portal using Streamlit for scam filtering and job validation, supported by a rigorous testing suite of over 1,030+ automated tests in pytest with Alembic database versioning.

Hyperion – Esports Team Operating System – Remote May 2026 – Present
Full-Stack Software Engineer

- Designed and built the entire system architecture of a multi-role Esports Operating System (Team OS) from scratch, featuring dynamic dashboards, financial tracking, and real-time announcement modules.
- Implemented secure database schemas, Row-Level Security (RLS) policies, and custom JWT authentication claims in Supabase to guard role-based permissions.
- Developed a robust automated testing infrastructure from the ground up, authoring 770+ unit tests and Playwright End-to-End (E2E) test cases to validate multi-user workflow scenarios.
- Integrated external APIs for automated WhatsApp notifications and set up pre-commit CI/CD gates (linting, typechecking, and test coverage thresholds) to ensure high code quality.

PT. Vektor Inti Prasada – Jakarta, Indonesia (Remote) Nov 2025 – Jan 2026
Frontend Developer

- Developed the responsive landing page and company profile user interfaces using React, TypeScript, and Tailwind CSS, converting design mockups into interactive and reusable UI components.
- Conducted cross-browser and mobile responsiveness testing to ensure layouts, navigations, and typography rendered perfectly across all screen sizes.
- Collaborated closely with the lead developer to integrate the frontend components and assets into the Laravel framework, ensuring a smooth system integration.
- Optimized page performance by auditing frontend assets, refining CSS structures, and ensuring fast initial loading speeds for enhanced user experience.

EDUCATION

STMIK Tazkia – Bogor, Indonesia 2024 – Present
Bachelor of Information Systems, 3.94/4.00

SPEAKING ENGAGEMENTS

Btech – Building an Academic Chatbot with RAG July 2026
Speaker

ACADEMIC PROJECT

Sapa Tazkia Chatbot AI – Universitas Tazkia Oct 2025 – Present
Full-Stack Software Engineer

- Developed a Retrieval-Augmented Generation (RAG) backend utilizing Express.js, Qdrant Vector Database, and OpenAI API to deliver accurate, context-aware responses to academic and campus inquiries.
- Built an interactive React.js & Tailwind CSS frontend integrated with a MySQL database via Prisma ORM, enabling students to access real-time academic summaries (GPA, grades) and download automated PDF transcripts.
- Designed and implemented a robust automated testing infrastructure, authoring backend unit/integration tests using Jest and Supertest, alongside End-to-End (E2E) user journey testing with Playwright to ensure zero-regression deployments.
- Implemented secure JWT and Google OAuth authentication, established multi-tier rate limiting using Redis, and containerized the entire multi-service application (MySQL, Redis, Qdrant) using Docker Compose.

ORGANIZATIONAL EXPERIENCE

Badan Eksekutif Mahasiswa STMIK Tazkia (BEM) – Bogor, Indonesia Dec 2024 – Dec 2025
Creative Media Staff (Komdigi)

- Designed high-quality digital posters and publication materials for various BEM events, collaborating with cross-functional event committees to translate design briefs into visual assets.

ADDITIONAL

- **Soft Skills:** Effective Communication, Leadership, Teamwork, Public Speaking, Critical Thinking, Analytical Thinking, Time Management, Problem Solving, Adaptability, Networking, Team Coordination
- **Technical Skills:** API Testing (Postman, Supertest), Application Architecture (Monolithic, Microservices, Retrieval-Augmented Generation/RAG), Cloud Infrastructure (Google Cloud, AWS, Tencent, Azure), Containerization & DevOps (Kubernetes, Docker Swarm, Docker Compose, GitHub Actions), Database & Caching (SQL, PostgreSQL, MongoDB, MySQL, Redis, Qdrant Vector Database), Development Tools (Visual Studio Code, Prisma ORM, Git), Programming (Python, Flutter, JavaScript/Node.js/React.js, TypeScript, Tailwind CSS), SDLC (Agile Scrum, Agile Kanban, Waterfall), SDLC Documentation (Project Charter, BRD, FRD, TSD, UAT), UAT Method Test (Manual & Automatic, Jest, Playwright, Vitest), SIEM
- **Knowledge:** COBIT 2019, ISO 27034 Application Security, ISO 27001 Information Security Management System, OWASP, JWT Security & OAuth 2.0
- **Language:** Indonesian: Fluent (Written & Spoken), English: Intermediate (Written & Spoken)