

Caroline Susanto

Software Engineer

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Summary

Informatics Engineering graduate with hands-on experience in software development across enterprise, backend, and full-stack environments. Experienced in building and maintaining production applications, RESTful APIs, authentication and access control, and database-driven systems using JavaScript/TypeScript, Vue/Nuxt, PHP/Laravel, and Python/Django. Proven ability to work across the software development lifecycle, from requirements and development to testing, deployment, and production support. Strong interest in building reliable, secure, and scalable software systems, with additional experience in AI and application security.

Technical Skills

Languages:	JavaScript, Python, Java, C, C++, C#
Frontend:	React, Vue.js, Nuxt.js 2/3, HTML, CSS, Tailwind CSS
Backend:	Node.js, PHP (Laravel, CodeIgniter), Python (Django)
Mobile:	Android (Kotlin), Firebase
Databases:	MySQL, Oracle Database, Firebase, Supabase
AI / ML:	Machine Learning, Deep Learning, Generative AI (Gemini API), Azure AI
DevOps & Tools:	Git, GitLab, Linux, VS Code, WebStorm, OpenAPI/Swagger, Postman
Security:	Access Control Testing, Burp Suite, OWASP Basics, NIST/ISO 27001 Familiarity
Languages Spoken:	Indonesian (Native), English (Professional – TOEIC 775)

Work Experience

Front-End Developer – HRIS Team, PT. Sigma Cipta Caraka (TelkomSigma)	Jan 2026 – Present
<i>Full-Time</i>	<i>Tangerang, Indonesia</i>

- Own end-to-end development and maintenance of 5 internal enterprise HRIS applications, ensuring continuous availability and feature delivery.
- Provide incident-response backup for 4 additional internal systems, reducing operational risk during high-demand periods.
- Build and maintain cross-stack applications using Nuxt.js 2/3, Laravel, CodeIgniter, and PHP across decoupled and monolithic architectures.
- Enforce frontend-to-backend security through input validation, authentication, and access control patterns.
- Collaborate cross-functionally with QA and backend engineers across the full delivery lifecycle – testing, debugging, documentation, and deployment.

Back-End Developer – HRIS Team, PT. Sigma Cipta Caraka (TelkomSigma)	Jul 2025 – Dec 2025
<i>Internship</i>	<i>Tangerang, Indonesia</i>

- Engineered 56+ RESTful API endpoints using Python (Django) and Oracle Database for scalable HRIS backend services.
- Designed core system modules from architecture to deployment: Employee Management, Authentication, and Internal Services.
- Authored OpenAPI specifications to standardize documentation and accelerate cross-team integration.
- Managed version control and branching workflows on GitLab, maintaining clean collaborative development practices.

Full-Stack Developer	Apr 2026 – Present
<i>Freelance Web Developer</i>	<i>Remote</i>

- Delivered custom web applications for multiple clients, translating business requirements into scalable, production-ready systems.
- Built full-stack solutions including frontend interfaces, backend services, database design, authentication, and admin dashboards.
- Managed end-to-end delivery: requirement gathering, deployment, hosting configuration, and post-deployment support.

- Audited security documentation against CIS, NIST, and ISO 27001 frameworks, closing compliance gaps ahead of deadlines.
- Built an Excel/VBA monitoring dashboard achieving 100% documentation compliance during the audit cycle.
- Conducted penetration testing on internal applications using Burp Suite and Linux-based tools, identifying critical vulnerabilities.

Selected Projects

MelodyLingo – AI Language Learning App [Next.js, Vue.js, Supabase, Gemini AI]

Feb 2026 – Present

- Building a full-stack AI language-learning app that uses music and lyrics for contextual learning, integrating the Gemini API for dynamic explanations/translations.

AI Agent for Broken Access Control Detection – Bachelor Thesis [Python, LLM/Gemini]

2025 – 2026

- Developed an LLM-powered AI agent for automated detection of IDOR/BOLA vulnerabilities in REST APIs, achieving 88.1% accuracy and a 147× speedup over manual testing across 28 endpoints.

DodocoMath – Educational Mobile App [Kotlin, XML, Figma]

Sep – Dec 2024

- Designed and developed an interactive mobile learning app for children aged 5–12, from UI/UX prototyping to functional Kotlin implementation.

Our List – Anime Information Platform [React, Chakra UI, Jikan API]

Feb – Jun 2023

- Built a full-stack web platform with secure API handling and automated data retrieval from external APIs.

Education

Multimedia Nusantara University (UMN)

Bachelor of Informatics Engineering – GPA 3.63/4.00

Aug 2022 – Jan 2026
Tangerang, Indonesia

- Thesis: *"Development of an AI Agent-Based Tool for Broken Access Control Vulnerability Detection Through Endpoint Testing Automation in Back-End Applications."*

Publications

Automated Detection of Broken Access Control in REST API Endpoints Using AI-Based Testing Agents

– Caroline Susanto et al., *Under Review, PeerJ Computer Science*, 2026.

Certifications

Microsoft Certified: Azure AI Fundamentals – Microsoft

HCIA Artificial Intelligence – Huawei

Ethical Hacker – Cisco Networking Academy

September 2025
February 2024
January 2025

Leadership & Awards

- **Harvard HSIL Hackathon 2026** – Finalist (Top 40), Team Leader & AI Architect for an AI-powered cardiovascular risk monitoring system.
- **Outstanding Volunteer Award**, Wo-Men in Tech Security (Aug 2026); Speaker, "Work Smarter with AI" Training, TelkomSigma (Aug 2026).