

# DAVID GARCIA SARAGIH

## FULL STACK & SYSTEMS ENGINEER

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### SUMMARY

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Full-Stack & Systems Engineer with experience architecting end-to-end digital ecosystems for logistics and events. Skilled in delivering **high-reliability web platforms** (Next.js/Laravel) integrated with **specialized mobile solutions** (offline-first Android). Proven track record of eliminating manual workflows—**reducing verification time from days to minutes**—while managing **1,600+ daily transactions** across distributed systems. Passionate about building scalable technologies that solve complex real-world problems, ensuring technical excellence translates directly into business growth and operational efficiency.

### EXPERIENCE

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#### Full Stack Developer, Komilet - JakLingko Angkot Operator Jul 2025 – Dec 2025

- Built and deployed a full-stack TypeScript web platform (Next.js, PostgreSQL) for Koperasi Mikrolet Jakarta Raya (Komilet), a JakLingko angkot operator managing 383 vehicles and 1,433+ users, digitising end-to-end internal operations for drivers, vehicle owners, admin staff, and management in a single role-based system.
- Designed and implemented core modules for driver and route/ritase management, payroll (processing 150,000+ trips), fines, attendance, TransJakarta verification (22,500+ entries), financial tracking, and analytics dashboards, using a PostgreSQL data layer, background jobs, and REST APIs.
- Replaced fragmented paper-based workflows with structured, auditable digital processes (**capturing 395,000+ audit logs**), eliminating manual validation errors and **reducing verification turnaround from days to minutes** while processing **1,600+ daily transactions**.

#### Coordinator of Web Division, UMN Festival 2025 Feb 2025 – Dec 2025

- Led end-to-end development of UMN Festival's official website (Laravel, React, Midtrans), delivering a fully dynamic platform **handling 1,392 paid orders (2,000+ tickets)**.
- Built an integrated digital ticketing system for UNIFY 2025, enabling online payments, automated QR-based e-tickets, and seamless on-site scanning that replaced manual verification workflows.
- Designed an admin dashboard and referral system with **dynamic layouts** for non-technical staff, improving operational efficiency, reducing manual errors, and modernizing the entire event management process.

#### Digital Strategist, Rental Mobil City Park Feb 2024 – Aug 2025

- Optimized digital presence and map visibility to increase customer reach.

#### IT Content Creator, David G Tech - YouTube & TikTok Mar 2021 – Sep 2025

- Created educational content on YouTube & TikTok simplifying web development concepts (Frontend, Backend, Git) for beginners.

#### Web Developer Committee Roles — Universitas Multimedia Nusantara Sep 2023 – Oct 2024

- **UMN VJD 2024 (Frontend):** Implemented dynamic UI components using TypeScript based on committee requirements.
- **PPIF UMN 2024 (Frontend):** Built responsive home pages/UI using React and Tailwind CSS.
- **UMN Tech Festival 2024 (Backend):** Implemented and maintained backend features and APIs using Laravel.

#### Web Developer Intern, DAAI TV Mar 2022 – May 2022

- Developed a PHP-based web application for DAAI TV that enabled users to easily generate customized digital Eid al-Fitr greeting cards from a predefined template.

## EDUCATION

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**Bachelor of Computer Science - Universitas Multimedia Nusantara** Aug 2023 – Present  
GPA: 3.81 (Expected Graduation: Aug 2027) · *Honors: 3rd Place - CODEXPO, ConnectFTI 2024*  
**Software Engineering - SMKS Cinta Kasih Tzu Chi** Jul 2020 – Jul 2023  
Grade: 89.8 · *Achievements: National FIKSI 2021 Participant, Top 3 Class Rank*

## PROJECTS

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**Komilet Pramudi - GPS Fleet Tracking (Android App)** Dec 2025 – Jan 2026  
*Android Developer (Solo)*

- Developed a native Android extension for the Komilet ecosystem using Kotlin and Jetpack Compose to enable real-time GPS fleet tracking capabilities.
- Engineered a complex offline-first architecture with adaptive polling and background services to ensure accurate mileage data capture under unstable network conditions.

**Personal Portfolio & AI Assistant** Dec 2025  
*Solo Project*

- Developed a brand hub featuring a **Gemini-powered assistant** with **manual RAG context** and **regex-based UI automation**.

**Ark Care Ministry Website** Nov 2024 – Dec 2024  
*Full Stack Developer*

- Built a full-stack content management platform for a nonprofit organization, enabling dynamic updates for activities, programs, and media through an intuitive admin dashboard.

## SKILLS

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- **Frontend & Mobile:** Next.js, React, TypeScript, Kotlin, Jetpack Compose, Tailwind CSS.
- **Backend & Database:** Node.js, Laravel, PHP, PostgreSQL, MySQL, Prisma ORM, Firebase, REST API.
- **Tools:** Git, Postman, Figma, Linux.
- **Domain Expertise:** Digital Logistics (Fleet Strategy), FinTech Integration (Payroll/Midtrans), High-Volume Event Ticketing, Real-Time Geo-Location Systems.
- **Languages:** English, Indonesia.

## ADDITIONAL INFORMATION

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- **Certifications:** Python, SQL, PHP, React, Web Development, Git, HTML, CSS, JavaScript
- **Portfolio & Code:** [davidgrcias.github.io](https://davidgrcias.github.io) · [github.com/davidgrcias](https://github.com/davidgrcias)