

Marco Sihombing

Software Engineer | Backend
Developer | Server Side



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🎓 EDUCATION

currently in 7th semester

General Achmad Yani University

09/2022 – Present | Cimahi, Indonesia

Currently pursuing a **Bachelor's Degree in Information Technology**, specializing in **Full-Stack Development** and **Software Engineering**. Actively involved in **academic projects**, with experience as a **Teaching Assistant** and **Freelancer**.

👛 PROFESSIONAL EXPERIENCE

PT Panenmaya Simamaung

Internship for developing applications

06/2020 – 08/2020 | Bandung, Indonesia

Developed a **news portal website** for **Persib Bandung**, featuring **news articles**, **match schedules**, and **scoreboards** using **PHP** and **MySQL**.

Key Responsibilities & Achievements:

- Designed and implemented **database schema** to manage articles, schedules, and live scoreboards.
- Developed **backend logic** for content management and data integration.
- Improved **user experience** through optimized data retrieval and responsive web layout.
- Ensured **system reliability** and **scalability** for handling growing traffic.

Technologies & Skills:

- **PHP, MySQL**
- **Backend Development, Database Management, Web Application Development**
- **Problem-Solving, System Optimization**

PT Wahana Interfood

Warehouse Quality Control

08/2021 – 08/2022 | Cimahi, Indonesia

Responsible for **maintaining the quality of goods** used in **production processes** and **packaging materials**, including **milk, cocoa powder, sugar, plastic, and boxes**. Worked **full-time** ensuring **quality standards, storage safety, and production readiness**.

Key Responsibilities & Achievements:

- Conducted **quality inspections** on raw materials and packaging products.
- Ensured compliance with **production standards** and **safety regulations**.
- Maintained **inventory quality** for both stored products and production use.
- Collaborated with **production teams** to identify and resolve quality issues.
- Improved **efficiency** by implementing **quality assurance procedures**.

Technologies & Skills:

- **Quality Control (QC), Inventory Management**

PROFILE

Backend Developer specializing in **REST API** development using **NestJS**, **database management**, and **system performance optimization** for efficiency and scalability. Experienced with **Firebase**, **Supabase**, **MySQL**, and **PostgreSQL (PgAdmin 4)**, and possesses foundational **Frontend Development** skills with **Next.js**, **Tailwind CSS**, **Bootstrap**, and **TypeScript** to support application integration. Additional expertise includes the **Laravel** and **CodeIgniter** frameworks. Interested in **Machine Learning**, **Data Mining**, **deployment**, and **cloud computing**, with an analytical approach and strong **problem-solving** skills. Focused on creating **reliable**, **secure**, and **high-performance systems**, and continuously developing skills in line with **technological advancements**.

Core Skills

- **Backend Development:** NestJS, Laravel, CodeIgniter
- **API Development:** REST API design & implementation
- **Databases:** PostgreSQL (PgAdmin 4), MySQL, Supabase, Firebase
- **Frontend (basic):** Next.js, Tailwind CSS, Bootstrap, TypeScript
- **System Optimization:** Performance tuning & scalable architecture

SKILLS

Indonesia



Mother Tongue

English



ORGANISATIONS

Bhineka Dev

Freelance Backend Developer

01/2024 – Present | Cimahi, Indonesia

Backend Developer (Freelance Projects)

- Experience in **building web-based applications** and **developing REST APIs**.
- Tech stack includes **Node.js**, **NestJS**, **Firebase**, **Supabase**, **PostgreSQL**, **MySQL**, **React.js**, **React Native**, and **Docker**.
- Familiar with **Agile Scrum methodology** for project collaboration and delivery.
- Key skills: **API development**, **database management**, **system optimization**, **problem-solving**, and **cross-functional collaboration**.

- **Documentation & Reporting**, **Attention to Detail**, **Problem-Solving**
- Familiarity with **production workflows** and **supply chain processes**

Meteorology, Climatology, and Geophysics Agency

Internship for developing applications

02/2025 – 07/2025 | Bengkulu, Indonesia

Designed and implemented a **REST API** for a **web-based guestbook application**, enabling the **recording of guest data** and providing **relevant agencies** with information regarding **guests and their needs**.

Key Responsibilities & Achievements:

- Developed **REST API endpoints** for guest registration, visit tracking, and reporting.
- Designed and optimized **database schema** to store guest information efficiently.
- Ensured **data security** and **role-based access control** for agencies.
- Improved **system scalability** and **performance** to handle multiple guest entries.
- Collaborated with frontend developers to ensure seamless **API integration**.

Technologies & Skills:

- **NestJS**, **Node.js**, **TypeScript**
- **Supabase**, **PostgreSQL**, **Firebase**, **MySQL**
- **REST API Development**, **Database Management**, **Authentication & Authorization**
- **System Optimization**, **Collaboration**, **Problem-Solving**

PT. Minilemon Nusantara

Freelance Backend Developer

05/2025 – Present

Built a **REST API** using **NestJS** and **Supabase** for backend development and data management.

Previously developed a similar system using **Python**, **FastAPI**, and **PostgreSQL**, showcasing adaptability across different **backend frameworks** and **databases**.

Key Responsibilities & Achievements:

- Designed and implemented **REST API endpoints** for CRUD operations and authentication.
- Integrated **Supabase** for **database management**, **authentication**, and **storage**.
- Improved **system performance** and **scalability** through optimized queries and modular architecture.
- Migrated functionality from **Python FastAPI + PostgreSQL** to **NestJS + Supabase** to align with project requirements.

Technologies & Skills:

- **NestJS**, **Node.js**, **TypeScript**, **Supabase**
- **Python**, **FastAPI**, **PostgreSQL**
- **REST API Development**, **Authentication & Authorization**, **Database Optimization**
- **Cross-Framework Adaptability**, **Problem-Solving**

CERTIFICATES

LSP P 1 — Professional Certification Institution (First-Party) recognized by **Bandung State Vocational School 11**, responsible for administering **competency-based professional certification** for graduates.

Web Programming — Certification provided by PT Cakrawala Global, an organization in the **IT sector** delivering **reliable, high-quality IT products** that meet **international standards**.

INTERESTS

Committed to learning new technologies in developing digital products through programming and collaboration. Interested in contributing to impactful projects, exploring new technologies and languages. Focused on clean coding practices, optimizing innovative technologies, and creating meaningful user experiences.

PROJECTS

BMKG Bengkulu Guest Book

Digital Guestbook Platform – REST API Development (Server-Side)

02/2025 – 07/2025

Developed the **server-side backend** using **NestJS** and **Supabase** to support a **digital guestbook platform** for **BMKG Bengkulu**. The project aimed to **record and manage visitor information efficiently**, improve **visitor management** and **administrative processes**, and ensure **accurate data** for **reporting** and **security purposes**.

Skills / Tech Stack:

- **NestJS, Node.js, TypeScript**
- **Supabase, PostgreSQL**
- **REST API Development, Authentication & Authorization, Database Management**
- **System Optimization, Collaboration, Problem-Solving**

AWARDS

Certificate of Appreciation – Server-Side Development

Indonesian Agency for Meteorology, Climatology, and Geophysics (BMKG) – Kepahiang Geophysical Station

29/07/2025

Awarded to **Marco Sihombing** in recognition of outstanding performance as a **Server-Side Intern**. Contributed significantly to the project **"Feature Enhancement and Maintenance of the Earthquake Database Website"** during the **student internship program (March – July 2025)**.

Key Highlights:

- Enhanced and maintained the **Earthquake Database Website** to improve **system reliability** and **data accuracy**.
- Developed and optimized **server-side logic** for handling **real-time earthquake data**.
- Improved **database performance** and implemented **secure data handling** practices.
- Collaborated with technical teams to support **backend integration** and **system optimization**.

Certificate of Appreciation – Server Side

Meteorological, Climatological, and Geophysical Agency (BMKG) – Kepahiang Climatological Station, Indonesia

29/07/2025

Awarded for outstanding performance during the **student internship program (March – July 2025)** as a **Server-Side Developer**. Contributed to multiple **digital transformation initiatives**, including:

- Developed the **Integrated One-Stop Service (PTSP) Website** for **BMKG Bengkulu Province**.

- Built the **Visitor Guest Book Website** for **BMKG Bengkulu Province**.
- Created the **Digital Employee Directory Website** for the **Climatological Station**.

Key Skills Demonstrated:

- **Server-Side Development**
- **REST API Design & Integration**
- **Database Management (Supabase, Firebase)**
- **Backend Architecture & System Optimization**
- **Scalable Application Development**
- **Cross-Platform Web Integration**