Magdalena Pebrianty Tambunan

🏠 Neglasari, Kota Tangerang Banten

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I'm Magdalena Pebrianty Tambunan, a fresh graduate from the Del Institute of Technology, with hands-on experience in backend system development using Golang.

I have experience in building RESTful APIs based on microservices architecture, managing PostgreSQL databases using GORM, and implementing JWT for user authentication and authorization.

I'm also familiar with configuring environment variables using .env, monitoring system performance through Grafana, and maintaining clean and structured code using the MVC pattern.

My main focus is on developing backend systems that are efficient.

Expertise

- **Cloud Computing**: Virtualisasi, Infrastructure as Code, Cloud Deployment

- **DevOps**: Docker, Kubernetes, OpenTofu, CI/CD

- **Web server development**: Node.js, RESTful API, Web Service

- **Web Development**: Node.js, Golang, HTML, PostgreSQL, MySQL, Docker, React.js

- **Container Virtualization and Management**: Docker Compose, Kubernetes Orchestration, Vmware

- **Network Security**: LoRaWAN, Digital Signature, Sniffing Attack MitigationAttack Mitigation

- **Document management**

Experience

ICT Learning Facilitator TIK / SMAN 1 HABINSARAN FEBRUARY 2021 – MAY 2021

- Teach ICT lessons, including introduction to computers, internet usage, as well as basic Microsoft Word, Excel and PowerPoint skills.

Full Stack Developer / Homestay Website Information System NOVEMBER 2022– DECEMBER 2022

- Analyzed user and owner needs for room availability management.
- Utilized HTML, CSS, JS, and frameworks for development.
- Managed databases and server functions for website operations.

Technologies:

XAMPP, HTML, CSS, JavaScript

Database Design and Management / PROJECT ON DESIGNING, BUILDING AND MANAGING DATABASES IN MYSQL MAY 2023 – MAY 2023

- Analyze the data to be stored and managed by the system.
- Designing a database schema using concepts such as tables, relationships, and foreign keys.
- Decide on the data type for each column in the table.
- Implement the database schema into MySQL, MongoDB
- Create the necessary tables, indexes, and constraints.
- Manage relationships between tables.
- Creating uce cases and erd.

Technologies:

MySQL, MongoDB

Introduction to Back-End Development / CREATE BACK-END APPLICATION. MARCH 2024–APRIL 2024

- Building web services with Golang (Gin/Echo).

- Utilizing Docker for application containerization.

- Managing PostgreSQL databases with DBeaver.

- Deploying applications to platforms like Heroku, AWS, or VPS.

- Testing RESTful APIs using Postman.

Technologies:

Golang, Docker, PostgreSQL

Internet Of Things Development / MAKING BARCODE SCAN PRODUCTS. JANUARY 2024–JUNE 2024

- Used MQTT for data transmission between devices.

- Developed hardware with ESP32CAM, buzzer, and LED.

- Creating program code to run the product process

Technologies:

MQTT, ESP32CAM

Bootcamp / Mobile Development. MAY 2024 – JUNE 2024

- Studied Kotlin fundamentals and Android programming.

- Learned UI/UX design with Jetpack Compose.

Technologies:

Kotlin, Jetpack Compose

Network Security Developer / network security for LoRaWAN systems to handle sniffing attacks using digital signature. JULY 2024 – Desember 2024

- Implemented Raspberry Pi as a control center for LoRaWAN.

- Used digital signatures for data security.

- Added security layers with MAC to prevent unauthorized modifications.

Technologies:

Raspberry Pi, LoRaWAN, AES, Ed25519

Backend Developer Intern – PT. Moonlay Technologies / Visee (AI Visitor Analytics System) January 2025 – Juni 2025

- Create and develop REST API using Golang and Echo framework.

- Knowledge of MVC, clean code.

- Strong in Golang syntax.

- Familiar with data structures (map, slice, array).

- Designed complex SQL queries and aggregation logic using GORM and PostgreSQL.

- Set up and manage CI/CD pipeline with GitHub Actions for automated builds and deployments to AWS EKS.

- Basic knowledge of deploying apps with Docker.

- Implemented authentication and authorization using JWT and HTTPS.

- Create and manage environment configuration files (.env).

- Applied understanding of Golang concurrency (goroutines and channels) to improve efficiency in asynchronous processing and service performance.

- Familiar with Git commands, including add, clone, commit, merge, pull, and push for version control and collaborative development.

- Monitored application performance and metrics using Grafana

  Technologies:

Golang, Echo, GORM, PostgreSQL, GitHub Actions, AWS, Git, Grafana, Docker.

Hobbies & Activities

Traveling, Pencak Silat, Gamers, Mountain climbing, Photography, Camp volunteer.

Education

2019 - 2022

SMA Negeri 1 Habinsaran / Ilmu Pengetahuan Alam (IPA)

2022 – 2024

Institut Teknologi Del / D3 Teknologi Komputer