Timothy Hosia Budianto

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PROFILE

An ambitious and motivated Informatics student driven by goals, passionate about exploring diverse realms within Information Technology. With a solid foundation in algorithm design and analysis, problem-solving expertise, and meticulous attention to detail, I am eager to embark on a versatile career in multiple facets of computer science.

EXPERIENCE

PT Kalbe Farma, Tbk - Cloud Computing Engineer (Contract)   April 2024 - June 2024

- As Bangkit's capstone, we make a web app to enhance, object detect, and grad cam detection of medical imaging (DICOM) data to prevent misdiagnosis of patients using AI Integration. The web app are built using streamlit and deployed using cloud run
- Make a centralized cloud based storage using google cloud platform's healthcare API, google cloud storage, Big queries, terraform, and develop our own OHIF viewer. The data is secured by GCP's best practices.

Institut Teknologi Sepuluh Nopember - Research Engineer   July 2023 - July 2024

- Conduct an experiment of comparing memory and processor usage of several versions of YOLO (you only look once) algorithm on image recognition from a streamed video in raspberry pi and jetson nano environment using resource aware framework in python.

Ministry of Agriculture, Republic of Indonesia - Back End Developer (Contract)   June 2023 - Dec 2023

- Developed an operational application called SIKAP (Sistem Informasi Klimatologi Pertanian), to monitor climate information from devices scattered around Indonesia (such as Temp, Humility, RRd, RRh, etc). The app collects and processes the data (Visualize it through graphics etc), then displays the data in an easy to use dashboard. The app also functions as an administering tool to manage devices and users .
- Are in charge of designing the UI and developing the backend API using laravel MVC structure. The app also uses role based authentication (token based) for security purposes.

Institut Teknologi Sepuluh Nopember - Teaching Assistant (Data Structure)   Feb 2023 - July 2023

- Teach and conduct test about data structures in C and C++ language

Indonesian Corrosion Week 2023 - Back End Developer   May 2023 - July 2023

- Developed an API for competition registration web application with login and registration feature.
- The app uses Laravel MVC and role based authentication system

PROJECTS

Network Infrastructure Topology   Nov 2023
- Create and arrange a network topology using GNS.
- The topology consists of multiple client, server, web server (Laravel and PHP), and switch. The topology also includes DHCP Server, DNS server, Database server, and Load balancer.
- Apply concepts like limiting certain ip address, lease time, DHCP Relay, virtual host for simple website, oad balancer algorithm, monitoring resources usage , htaccess, proxy pass, testing using apache benchmark, PHP-FPM, least-conn, and BASH script, Learn ip distribution using VLSM and CIDR
- github.com/thossb/jarkom-modul-4-D08-2023

Car Rental System   Jan 2023
- Car Rental System using Laravel Onion structure
- Multiple business process queries include filtered search, payment history, admin management page, adapt for multiple branches, earning information, and login register

- github.com/thossb/Car-rental-FPMBD

Hospital Management System   Sep 2023
- Hospital Management System using Laravel Onion structure
- Multiple business process features include login register, article page, inventory management page, and medical history page using filtered search.
- github.com/thossb/sistem_manajemen_rumahsakit_ets

Deploying cancer prediction machine learning model, with HAPI   Sep 2023
- Simple backend using HAPI deployed on google's compute engine and simple frontend deployed on google's app engine.
- github.com/thossb/sistem_manajemen_rumahsakit_ets

CERTIFICATIONS & LICENSES

Google Cloud Computing Foundations (Google CLoud Skill Boost), Cloud Engineer Learning Path (Google CLoud Skill Boost), System Administration and IT infrastructure Services (Google & Coursera), The Bits and Bytes of Computer Networking (Google & Coursera), Back-End basics (Dicoding), Javascript basics (Dicoding), Git and Github basics (Dicoding), Front-End basics (Dicoding)

EDUCATION

2021 - 2025 (Expected)
Sepuluh Nopember Institute of Technology (ITS), Indonesia
Bachelor's degree (Sarjana Komputer - S.Kom.), Majoring in Informatics
- Current GPA: 3.72/4.00

Feb 2024 - July 2024 (Expected)
Bangkit Academy 2024 By Google, GoTo, Traveloka
Cloud Computing Learning Path

2018 - 2021
SMAN 21 Jakarta, Indonesia
High School Diploma
- Head of Logistics at SMA Negeri 21 Jakarta's Christian Community (2019-2020)
- Production Staff at KERTAS 2019
- Public Relations Coordinator of teenage community GKJ BEKASI (2018-2021)
- Head of Finance of teenage community annual camp GKJ BEKASI (2019)

ORGANIZATIONAL & COMMITTEE EXPERIENCE

Himpunan Mahasiswa Teknik Computer-Informatika ITS (Student Association of the Department of Informatics at ITS) - Staff of Professionalism, Science, and Technology Department   Feb 2023 - Feb 2024
- Plan, organize, and prepare a series of project department programs. Programs included regular seminars and managing all communities in the informatics major

Schematics REEVA 2023 - Senior Production Staff   May 2023 - Dec 2023
- Plan, organize , and prepare for the final schematics event, namely a concert with a capacity of 5-10 thousand people.

Schematics REEVA 2022 - Production Staff   May 2022 - Dec 2022
- Plan, organize , and prepare for the final schematics event, namely a concert with a capacity of 5-10 thousand people.

PMK ITS (Persatuan Mahasiswa Kristen) 2022 - Logistics Officer   March 2022 - Dec 2022
- Plan, organize , and prepare for all the equipment for the annual ew Student Spiritual Development