ALFI SAMUDRO MULYO

alfialfarisi@gmail.com | alfi.samudro@icloud.com

(+62)-8233-980-3192

OBJECTIVE

Experienced software engineer with a strong background in modern tech stacks and passionate about developing high-quality and user-friendly applications on any platform.

My primary mission is to help company's growth with my proven track record of delivering scalable applications.

SKILLS & ABILITIES

Proficient full stack developer. Experienced in developing an entire system in every technical aspect, including frontend, backend, API, git, database, third party integration, payment gateway integration, cloud computing, etc.

EXPERIENCE

EdgeProp Singapore

Software Engineer | 2018 - Present

I am a software engineer at a Singapore company (working remotely). My current role is as a team leader and manage a professional news site as a full stack developer.

Here are the tech stacks I use:

- Frontend: React JS (Next), Tailwind CSS, Redux, etc.
- Backend: PHP (Drupal, Laravel, Lumen), Redis cache, Node JS (Express JS), Python, etc.
- Payment gateway: Stripe.
- AWS: Elastic beanstalk, Elasticache, RDS (MySQL), code commit, code pipeline, EC2, lambda function, etc.

Besides the tech stacks I mentioned above, I also handle some features like:

- Google Ad Manager,
- SEO metatags,
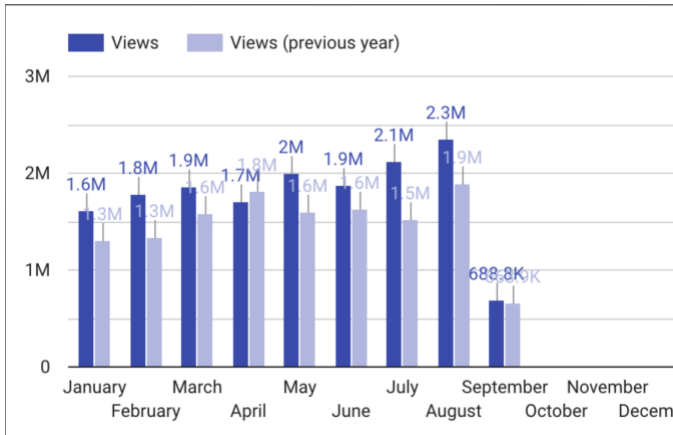- Provide API for Mobile App and some site partners,
- RSS news,

- Cron job, and many more.

Basically, I involved in three teams:
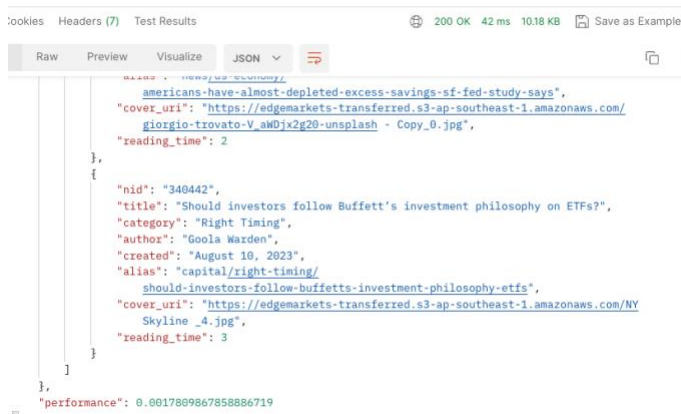
1. https://www.theedgesingapore.com/
   I am a team leader of this project as a fullstack. I handle any part of this site including CMS, backend, frontend, server, subscription, reporting, and many more.
   Initially, this project was developed using PHP and was relatively slow. So, I initiated migrating the site using a better stack for the Frontend side (to Next JS) and optimize the APIs. We got a positive response afterward.

2. Provides APIs for mobile App news
   On the mobile App team, I responsible to create and provide APIs they need including news list, news sections, news details, premium section, subscription status, authentication, etc. with optimized endpoint.

3. https://www.edgeprop.sg/
   Initially, I assigned to this team as a backend developer and bug sweeper. I also created some features like internal CMS using Laravel and integration with https://www.theedgesingapore.com site.

EXPERIENCE

Besides being a professional employee, I also created a small team and have done some projects:

- **SPLUE (Stasiun Pengisian Listrik Umum Eceran)**
  Build a new system to control electrical outlets using raspberry pi and online payments.
  The electricity will be activated after the online payment is successfully made and the user will get a kWh quota according to the amount of money paid. Once kWh usage reaches the quota, the electricity will be deactivated automatically.
  Project's tech stacks:
  - Electrical components:
    - Pzem-004t – Censor to calculate kWh usage,
    - TTL to RS485 Power Supply Converter,
    - USB to RS485 Serial UART Converter,
    - Relay – Electricity controller,
    - LCD 7-inch HDMI – Displaying kWh usage.
  - Raspberry Pi – micro-computer to process electrical components data:
    - Rabbit MQ – Queue for receiving payment kWh quota,
    - GPIO – Relay controller,
    - Socket IO – Pzem-004t inputs to web real-time.
  - API server:
    - Send success payment made to Rabbit MQ with calculated kWh quota,
    - Collecting electrical outlets usage.
  - CMS Dashboard:
    - Reporting.

- **Internet Billing Web Application**
  Build a modern Rich features admin dashboard for internet service provider business. Web application system to manage customers, employees/staffs, services, payments, reporting, including payment gateway for end-user (payment via Bank Virtual Account).
  Project's tech stacks:
  - Admin and customer web page:
    - React (Next JS) with MUI's components,
    - Redux for state management.
  - API service:
    - All endpoint API service written using Laravel.
    - Security implementation using Laravel Sanctum, JWT, and middleware,
    - PostgreSQL as the main RDBMS,
    - Unit test.
  - Extra tools:
    Github as the code hosting platform and auto deploy to server via Github webhook.

EXPERIENCE

Other done Projects:

- Library Lending System at CV. InnotechSolution using VB 6 and MS. Access (Team Project, 2013)
- Registration System in SMK Negeri 1 Kepanjen using PHP Native (Individual Project, 2014)
- Cooperative System in SMK Negeri 1 Kepanjen using PHP Native (Individual Project, 2014)
- E-Commerce System to Sell Laptops using PHP Native with OOP (Individual Project, 2015)
- Android Application Game: Stack Verse Using Unity 3D and C# (Team Project, 2015)
- Augmented Reality System using Unity3D C# and Vuforia (Team Project, 2015)
- Android System GET Cinema API in JSON Format (Individual Project, 2015)
- Promethee Method on Decision Support System using PHP Framework – Codeigniter (Team Project, 2016)
- E-Commerce System to Sell Baby Equipment in UmmaBabyShop using PHP Framework – Laravel and JavaScript on Ajax Request. Using RajaOngkir API to get the shipping price base on the distance and weight (Individual Project, 2016)
- Weighted Product Method on Decision Support System using PHP Framework – Laravel and JavaScript on Ajax Request (Individual Project, 2017)
- Helton (Helper Button). Use Android Application to send the data when somebody ask for help. When the Button is pressed, system will send data to the website and ring the buzzer for the notification. The data will be displayed on the website in Real Time. (Team Project, 2017)
- Aeroponics Monitoring System in Singapore. By using Sensor (humidity sensor, temperature), Camera, Mist Maker, and Raspberry Pi, the condition of plant can be monitored on web base system. This system use REST API Concept and can get the information in Real Time (Team Project, 2017).
- Scan Meter. Project from one of the biggest National Company in Indonesia (PLN). Develop an Android application to scan barcode and post the data to web service using RestFull Concept. (Team Project, 2017)
- Clungup Beach Reservation System using PHP Framework – Codeigniter (Team Project, 2018)
- Automatic Indonesian Grammar Checker System using PHP Native, JavaScript – jQuery JavaScript PopOver.js, and Regular Expression. (Individual Project, 2018)
- The Indonesian Law Extraction System from the website becomes an xml file. Using Python Framework – Flask and Regular Expression. (Individual Project, 2018)
- P2TL Mobile. Project from one of the biggest National Company in Indonesia (PLN). Develop a Website and Android application that is connected to a web service and able to print document using Epson LX300 (Offline DotMatrix Printer) via Raspberry Pi. (Team Project, 2018)
- Citizens Association Information System using PHP Framework – Codeigniter (Team Project, 2018)

EDUCATION

SMK NEGERI 1 KEPANJEN

Rekayasa Perangkat Lunak | 2011 – 2014

Politeknik Negeri Malang

Bachelor of Applied Science | 2014 – 2018

Publication: https://ieeexplore.ieee.org/document/8751591

GPA: 3.79 of 4.0

MORE ABOUT ME

https://github.com/alfism1
https://www.linkedin.com/in/alfi-samudro-058b1910a/