Muhammad Alfalah Madukubah

Email: muhalfalah1998@gmail.com | Github: madukubah | LinkedIn: muh-alfalah

Work Experiences

- **Freelance programmer**
  Self-employed, Kendari, Indonesia
  Aug 2021 - Present
  Developed ERP Systems using odoo. Worked as fullstack developer who build the back end and the front end together. Designed, developed, maintained, and updated client websites. Tech stack used was Python, JavaScript, and Odoo.

- **Full Stack Developer**
  TECHNOINDO, Kendari, Indonesia
  Feb 2020 - Mar 2021
  Developed ERP Systems for Mining Management using odoo. Create some custom module to catalizing their work to defined ore stock and find it cost. Developed dashboard using chart js combining with odoo module structure implement some odoo main module such as Sales, Purchase, Inventory, HR, and absolutely Accounting. Used DigitalOcean for hosting. Tech stack used was Python, JavaScript, Flutter, Data Engineering, and Odoo.

- **Freelance programmer**
  Self-employed, Kendari, Indonesia
  Aug 2019 - Feb 2020
  Worked as fullstack developer who build the back end and the front end together. Developed Web API using laravel and mix it with JWT for user autentification. Used flutter for the front end. Used DigitalOcean for hosting.

- **Staff Software Engineer**
  Techno's Studio, Kendari, Indonesia
  Nov 2017 - Aug 2019
  Designed, developed, maintained, and updated websites. Conducted unit testing to deliver optimal browser functionality. Responsible for Website and software application designing, building, and maintaining. Coded, designed, and laid out websites according to a company's specifications. Took into consideration user experience and function, graphic design, and computer programming.

Work Projects

- **ERP Sinar Jaya Sultra Utama**
  Technoindo
  Developed ERP Systems for Mining Management using odoo. Improved accounting performance, provided paperless work the company could be tracking dump trucks and heavy equipment easily. The system has now reduced the company's overall operational costs and improved accuracy and efficiency.

- **e-absen fingerprint**
  Freelance
  Work as Fullstack Developer. I worked on this project by integrating the fingerprints in each SKPD into a website so the regent able to know the attendances of his employees. Technology used: PHP, CodeIgniter.

- **SISA (City Garbage Collector App)**
  Technoindo
  Worked as fullstack developer who build the back end and the front end. SISA is a Garbage Information System that created an efficient recycling system that is easily accessible anywhere and anytime, connecting people to form a solid foundation for the environment, and striving to make the world this is a better place. Technology used: PHP, Larave, Flutter

- **Si-Umah**
  Freelance
  Work as Fullstack Developer. Si Umah Is an information system that helps Dinas Perumahan dan kawasan Permukiman Kabupaten Konawe Utara manage the receipt of assistance for Non-livable Houses (RTLH). Technology used: PHP, CodeIgniter.

- **GIS Perkim Bau-Bau**
  Freelance
  Work as Flutter Developer. the app is an information system that mapping slum area in Bau-Bau city, Indonesia.

- **Co-Kost**
  Freelance
  Work as Fullstack Developer. application that help people to find homestay. Technology used: PHP, CodeIgniter, Kotlin, Android Studio.

Open Source Projects

- **KNN ALGORITHM**
  April 2019
  the k-nearest neighbors algorithm (k-NN) is a non-parametric method used for classification and regression.
  I applied this algorithm in scholarship awarding to determine whether students were entitled to receive scholarships by assessing the proximity of their data to the data records of experts, based on Euclidean distances.
  src: github

- **TREND LEAST SQUARE (TLS)**
  September 2019
  Least Square is the method for finding the best fit of a set of data points.
  I apply this algorithm to predict how many product sales for the next month, which will be used as the basis for determining product stock.
  src: github

- **INSTABOT**
  January 2019
  bot for auto like, auto follow and auto comment.
  I create web crawler using **Selenium** and **Ruby**. Perform some human like interaction such as like , message, and follow someone IG account
  src: github,video

- **INSTANALITIC**
  November 2020
  instagram users Analytic.
  As a continuation of the bot project, i build an app to analyze instagram users based on their image post tags. collect bunch of data using bot, cleaning the data and analize it using clustering algorithm
  src: Dashboard,Clustering,Classification

- **MUEZZA RUN**
  September 2018
  endless run game, collect coins and exchange it with game city tokens .
  I create an endless running game using **Unity 3D** and program it using **C#** language
  src: game

Educations

- **Bachelor degree in Informatic Engineering**
  Halu Oleo University, Kendari, Indonesia
  Desember 2020
  - Mini Thesis : Analysis of Instagram Users Characteristics for Optimisation of Advertising Bot Using K-Means Clustering and Cosine Similarities Classification
  - Supervisors : Rizal Adi Saputra, Bambang Pramono

Publications

- Muhammad Alfalah. Analysis of Instagram Users Characteristics for Optimisation of Advertising Bot Using K-Means Clustering and Cosine Similarities Classification. December 2020

Awards

- Top 27 Finalist, KIHAJAR MOBILE, game category, 2017

Events

- Speaker at TS TALK : "Everyday Task with ChatGPT", February 2023

Volunteering

- **Programming Mentor**
  Suddenly Coding, 2023
  Teaching Programming Fundamental

- **Graphic Designer**
  Kendari Inspiration class, 2017
  Design IG feed

Languages

- Indonesian(Native), English(Intermediate)