

Tjong Surya Citra Nugroho

Back End Developer

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EXPERIENCE

PT Kita Bisa Teknologi, Banten — *Back End Developer*

2020 - PRESENT

Develop And Maintenance for Back End G-Tour

Apps Develop and Maintenance for Pantau VMS

Develop ERP for multi-level Company

SCCIC, Bandung — *Programmer*

2019 - 2020

Responsible for several project

Hotel Victoria, Yogyakarta — *Admin*

2016 - 2019

Responsible for data in Warehouse Stock

English First, Banten — *Admin*

2015 - 2016

Responsible for English English (TOEFL, TOEIC, IELTS) Responsible for Student Data and Reporting

EDUCATION

UKDW, Yogyakarta — *System Information*

2016 -2021

SMAK Terang Bangsa, Semarang — *IPA*

2011 - 2014

SKILLS

- Analytical
- Critical Thinking
- Team Work
- MySQL
- Oracle Database
- Mongo DB
- Javascript
- PHP
- CodeIgniter 3
- Laravel 8, 9
- Node JS
- Express JS
- Apache JMeter
- JWT
- CRON
- Socket
- HTML
- CSS
- Bootstrap

LANGUAGES

- Indonesia
- English

PROJECTS

Prototype Automated Guided Vehicle (AGV) — 2015

Develop a running prototype Guided Vehicle for Warehouse Purpose, where the prototype capable to follow the line and automatically charge battery when low. Using simple sensor to read a line and follow the instruction.

- Creating from scratch including solder PCB to install the component into running prototype.
- Code basic program into PCB.

Technology Used: C++, sensor, Arduino

E-Voting — 2018

Creating a simple Website for voting Idol for campus project.

- Develop Backend and Frontend of a website.
- Using MVC Model on Code Igniter

Technology Used: Code Igniter, PHP 7, MySQL, HTML, CSS, Bootstrap, Javascript

Website Game Trading Card — 2019

Helping and advising another project team a game card similar to

Yu-Gi-Oh Game based on Website for for several project team in campus.

- Advising several team mostly consist of 2 - 3 member to develop a working website to play the game.
- Advising the most possible way to finish the project in the shortest time.

Technology Used: Code Igniter 3, PHP 7, MySQL, HTML, CSS, Bootstrap, Javascript

Simple Medical Checkup API— 2020

Creating a simple API medical checkup to merge with the existing mobile app created by client. Responsible to create from scratch up using Code Igniter. Created for a project from a friend.

- Develop a simple API.
- Solve the client problem regarding the front end problem.

Technology Used: Code Igniter 3, PHP 7, MySQL, HTML, CSS, Bootstrap, Javascript

Create Flower Shop — 2020

Helping and advising another project team to create a flower shop, created for a project from a friend.

- Advising client to develop a working website.
- Teach the client on how to use Code Igniter 3.

Technology Used: Code Igniter 3, PHP 7, MySQL, HTML, CSS, Bootstrap, Javascript

Create Internal Hospital Project — 2021

Helping and advising another project team to create a flower shop created for a project from a friend.

- Advising client to develop a working website.
- Teach the client on how to use Laravel 8.
- Solve the client problem regarding the role problem.

Technology Used: Laravel 8, PHP 7, MySQL, HTML, CSS, Bootstrap, Javascript

Mobile App Coffee Tracking in Yogyakarta — 2021

Re-develop an existing mobile app similar to Gofood and Grabfood, but in smaller scope. Responsible for API and Mobile API Development. Created for a project from a friend.

- Create a working API for the project using MVC Model on Code Igniter 3.
- Redevelop mobile app from the design to be able to connect with the created API and also connect with Google Maps.
- Connecting the mobile app to be able to use Google Maps for use.

Technology Used: Code Igniter 3, PHP 7, MySQL, HTML, CSS, Bootstrap, Javascript, Java

Mobile App Logistic — 2021

Helping and advising a mobile app with the ability to scan a QR code to update or check the stock in a logistic of a company, created for a project from a friend

- Helping client to create a working API to be used on the mobile app.
- Advising client on how to use package.
- Advising and teaching the client on how the program actually work.

Technology Used: Code Igniter 3, PHP 7, MySQL, HTML, CSS, Bootstrap, Javascript, Java

Create A Website to Analyse a stress test of a website using Apache JMeter — 2021

Creating a website for last thesis project, the website is capable to make a template file based on the criteria inputted to run in Apache JMeter and to analyse the output of the test.

- Create Backend and Frontend Website.
- Create using MVC Model on Code Igniter 3.
- Learn how to stress test and the difference between stress test, performance test and load test.
- Learn and Practice how to create a working file needed to be used on Apache JMeter.
- Create Function to automatically create a working file needed to stress test on Apache JMeter based on provided data from the user.
- Create a working bat file to automatically run apache JMeter using the downloaded file.
- Create Function to automatically create graph based on the result of the output from Apache JMeter test.

Technology Used: Code Igniter 3, PHP 7, MySQL, HTML, CSS, Bootstrap, Javascript, Apache JMeter, bat

Re-Develop Borneo News — 2020 (Dropped)

Re-Develop a news website from Angular - PHP 5 into React - NodeJS. A project from company. Lead of Backend Team. Dropped Because the client asked for it, almost 60% Finished

- Redevelop the website into 2 parts, frontend and backend.
- Redevelop Backend PHP 5 Code into a working Node JS API.
- Analyse and optimize Database and successfully reduce data storage needed from 2 Gb to 1 Gb.
- Analyse and decide the best package for mysql in Node JS from mysql, mysql2 and sequelize using the optimized data.
- Redevelop User Access from PHP 5 Code into Node JS Code, where the data from database actually json stringify which connect into another table in which connect to another table.
- Create Automatically Backup Logs into file.

Technology Used: MySQL, NodeJS 12, Express JS, React JS, JWT, winston, morgan, PHP 5

Maintain Pantau — 2020

Maintain and develop an Existing Running Project as Backend Developer.

- Maintain and Analyse Project with HMVC Model in CodeIgniter 3.
- Develop Specific API for iOS API Development.

Technology Used: CodeIgniter 3, PHP 7, MySQL, HMVC

Pantau VMS — 2020

Create Visitor Management System for building Product.

- Create Backend and Frontend Website.
- Design and Create Database using MySQL.
- Deploy and Maintain Project in Hosting.
- Develop Using HMVC Model in CodeIgniter 3.

Technology Used: CodeIgniter 3, PHP 7, MySQL, HMVC, HTML, CSS, Bootstrap

G-Tour Apps — 2021

Creating a website and mobile apps similar to Traveloka but with more focused on tour project with a running Chat Group. A project from company. Lead of Backend Team. In the testing Phase.

- Design and Create Database using MongoDB.
- Create and Maintain API for both admin and user.
- Consult with the Frontend and UI/UX developer to decide the best way to make user comfortable with the app.
- Using JWT for System Access API, where the data in JWT provide necessary way for the API to know from where the authenticated come from and what API can be accessed (Mobile and Website).
- Create Automated Logs file and automatically delete after 30 days.
- Using CRON Job to automatically change status in Tour.
- Deploy and Maintain Server needed for the API using Centos 7.
- Develop together with Frontend Developer using FCM to create Room Chat for Tour Member and Tour Leader.

Technology Used: MongoDB, NodeJS 12, Express JS, JWT, winston, morgan, FCM, CRON

ERP — 2021

Creating a ERP project for multi-level Company from Scratch, with a complex Accessibility. A project from company. One of the two lead analyst that goes to the field location for system analyst, with the client has no any basic information of a IT project, the company has several subsidiary company in several location. Lead of Backend Team. Still On-Going Project.

- Accompany Project Owner to Kalimantan to communicate with the Client and Division Leader.
- Helping Project Owner to gather information and analyse the Client need.
- Consulting with Division Leader on what they expected to be in the system.
- Going Location onsite with project Owner and see directly what the Operational Division Need and the obstacle in the location.
- Design and Create Database using MongoDB.
- Deploy and Maintain Server needed for the API using Centos 7.
- Create and Maintain API both in development and deployment.
- Lead Backend Team to split the Project into several parts based on Division Module and System Module needed to develop.
- There are 7 Divisions Module Consist of: Operational (step by step from mapping to sell to buyer), HRD, Accounting, Finance, Logistic, Legal and Marketing. 2 Additional Module consist of User Access (Multi Level Company and Location) and Backup Data (Manual with provided API).
- Develop and Consult each Module with Frontend Developer, UI/UX Developer and Project Owner.
- Develop necessary Function to help Backend Team to ease their workload, especially: User Access Authentication, API Access Authentication both in Company or Location Level, Getting All Company or Location from specific Access Function, Output to Client Function, Automated Query Function, Backup Database Function and Log History.
- Develop Several Module: Operational, HRD, Logistic, Accounting, Marketing, User Access, Backup Data and Log History. But still handle other Module Especially Accounting and Finance, because still needed to Provide Comment or Opinion based on Client and most use case scenario.
- Develop Log History saved into MongoDB, consist of which Authenticated User come from, which API they access, what data they added, changed or deleted.
- Create Automated Logs file and automatically delete after 30 days.
- Design and Implemented User Access Model, where the Access can be categorized based on Company or Location Usage.
- Create API to process User Access into Database and process it for both API Access Authentication both in Company or Location Level and for Frontend usage.
- Create API to process Backup Database into 3 phase, migrate to other Database both in the same or Different Server, dump all Collection in the Database (Using Mongodump) or download

Specified Collection (Using Mongoexport). For both dump and download phase, tested in Command Prompt and Power Shell in Windows 11 and Terminal in Centos 7

- Upgrade Node JS Version in server into newest LTS Version (v 18).

Technology Used: MongoDB, NodeJS 12, NodeJS 18, Express JS, JWT, winston, morgan, mongodump, mongoexport, command prompt, terminal, powershell, Centos 7

Pantau VMS — 2022

Redevelop Visitor Management System for building Product. Already in 2nd phase. A project from company. Lead of Backend team. Already implemented in ISS and GMF Aero Asia.

- Design and Create Database using MongoDB.
- Deploy and Maintain Server needed for the API using Centos 7.
- Create and Maintain API both in development and deployment.
- Develop and Consult with Frontend Developer, UI/UX Developer and Project Owner.
- Using Socket.IO to inform the change in data for Dashboard Purpose.
- Create Automated Logs file and automatically delete after 30 days.

Technology Used: MongoDB, NodeJS 12, Express JS, JWT, Socket.IO

Hewania — 2022

Create a Pet Online Shop, responsible for mostly backend with some frontend development. Project from a friend. In the testing Phase.

- Design and Create Database using MySQL.
- Integrate Backend with Existing Frontend Code.
- Fix Frontend Code problem (Unlinked href, Not Working Modal, Not Working Function or Button, etc).

Technology Used: PHP 7, MySQL, HTML, Javascript, JQuery

OSIS — 2022

Integrate Unfinished Project, responsible for mostly backend with some frontend development. Project from a friend. In the testing Phase.

- Design and Create Database using MySQL.
- Integrate Backend with Existing Frontend Code.
- Fix Frontend Code problem (Unlinked href, Not Working Modal, Not Working Function or Button, etc).

Technology Used: PHP 7, MySQL, HTML, Javascript, JQuery

Migration — 2022

Because of Re-Development a new Website running in Vercel App, so the existing Website and its Sub Domain needed to migrate to Vercel.

- Migration Nameserver.
- Add, Change and Testing Record in Vercel to be able to connect with some of the previous Sub Domain to Different Hosting or Server.
- Add and Testing for Mail Services because of Change.

Technology Used: Nameserver, Vercel, Hosting, Server, MX

Bengkel Shop — 2022

Helping and advising a mobile app with the ability to scan a QR code to update or check the stock in a logistic of a company, created for a project from a friend.

- Helping client to create a working Backend Code.
- Advising and teaching the client on how the program actually work.
- Teaching Client on How to Use Laravel 9.

Technology Used: Laravel 9, PHP 7, MySQL, HTML, Javascript, JQuery