

Fajri Muhammad Tio

West Sumatera | [Portfolio](#) | [LinkedIn](#) | +62 823 7605 5328 | fajri.jobs@gmail.com

SUMMARY

Geophysics graduate who is interested in programming, previously I have learned about the python programming language. Have participated in an internship program for 3 months as a Fullstack Web Developer. Currently have an interest in the field of web developers which makes me take steps to learn through several Bootcamps, one of which is at MERN Stack (MongoDB, ExpressJs, ReactJs, and NodeJs). In the Bootcamp, I learned both Backend and Frontend and had several projects. Currently, I am open for Fullstack Web Developer, Backend Developer, and Frontend Developer positions, and I am willing to relocate.

WORK EXPERIENCE

Alkademi

Fullstack Web Developer

WFH - WFO (Partial), Bandung, ID

May 2023 - Aug 2023

- Learned various aspects of web development, including static web programming (HTML, CSS, JavaScript), the use of Express.js for the backend, database modeling with ERD and SQL, and dynamic application development using Nuxt.js with features such as Vuex state management, authentication, data manipulation, routing, and interaction with APIs using Axios. This experience gave me extensive skills in developing holistic and efficient web solutions for 2 months.
- Optimized the potential of Budibase as a low code platform in creating a coffee ordering application, by developing the application quickly and efficiently and implementing business logic and basic functions through a visual interface without the need to write code manually for 5 days.
- Designed an effective data storage structure to support coffee ordering, incorporating information such as coffee type, order quantity, customer, and order status, and used Budibase to manage the data and implemented a CRUD (Create, Read, Update, Delete) mechanism for 3 days.
- Designed the user interface of the coffee ordering application with an attractive and responsive design, using design tools from Budibase, and adjusted the layout, colors, and other visual elements to provide an optimal user experience for 4 days.
- Automated the ordering and processing process through the automation tools available in Budibase, and implemented an automated workflow to notify staff when a new order or a 2-day change in order status occurs.
- Designed and implemented an API to enable communication between frontend and backend using Javascript programming language and Express.js framework for 10 days.
- Develop an authentication and authorization mechanism using JWT (Json Web Token) for 1 day.
- Develop an Entity-Relationship Diagram (ERD) that includes the structure and relationships between entities in the MySql database used for 2 days.
- Integrate the backend with the frontend and perform integration testing to verify seamless interaction between the two parts for 10 days.

EDUWORK

Internship project

Jakarta, ID

Oct 2021 – jan 2023

- **Frontend Development:** developing a responsive and attractive user interface using React.js for 1 month, including the design and implementation of product pages, categories, product details, shopping cart, and checkout pages.
- **Backend Developer:** developed the backend of the e-commerce application using Node.js, MongoDB and Express.js, designed a RESTful API to manage CRUD operations on products, users and orders, and implemented user authentication using JSON Web Tokens (JWT) to maintain secure access to certain parts of the site for 1 month.

- **Product Management:** implementation of a 4-day product management system that allows admins to perform product add, edit, and delete operations, as well as group products into categories and provide product search features.
- **Authentication and Authorization:** implemented a JWT-based authentication system for 5 days to secure routes and regulate user access, and granted access permissions according to user roles, such as visitors, customers, and admins.
- **Shopping Cart and Checkout Management:** Develop a shopping cart that can store items and their quantities, calculate the total shopping including shipping costs, and execute the checkout process by collecting shipping information and providing payment method selection options for 1 week.
- **Payment Integration with Stripe :** integrate Stripe API so that users can make payments using credit cards or other payment methods, while maintaining payment information management and transaction process security through Stripe services for 3 days.

CERTIFICATION & BOOTCAMP

EDUWORK

MERN Stack Web Developer

Yogyakarta, ID

Oct 2021 - Jan 2023

- **Version Control:** Experienced in using Git to manage code versions and collaboration in software development.
- **Frontend Development:** Proficient in HTML and CSS to build attractive and responsive interfaces. Familiar with CSS Flexbox concept and grid system implementation such as Bootstrap.
- **JavaScript:** Understand the basics of JavaScript including data structures, control flow, and function usage. Able to manage scope well.
- **Object Oriented Programming (OOP) in JavaScript:** Have a basic understanding of OOP concepts and the application of modules in development.
- **Asynchronous Programming:** Familiarity with asynchronous programming concepts, including callbacks, promises, and the use of rest parameters.
- **Development with ReactJS:** Able to build basic components, organize views with good styling, and create reusable components. Understand how to render variables, form validation, component lifecycle, and utilize hooks and routing in ReactJS. Experience in using Redux for state management.
- **Backend Development with Node.js and Express.js:** Ability to build servers using Node.js and Express.js framework, and develop APIs to interact with databases.
- **MySQL:** Have knowledge of databases, perform CRUD (Create, Read, Update, Delete) operations with MySQL, and implement APIs using Express.js and MySQL.
- **MongoDB:** Able to perform CRUD and authentication operations on MongoDB, and develop APIs using Express.js and MongoDB.

DIGITALENT SCHOLARSHIP

Backend Developer

Bandung, ID

Oct 2022 - Mar 2023

- Learn about the basic fundamentals of AWS Cloud and how to build Cloud Architecture on AWS.
- **Node.js Basics :** Get to know Node.js and know the basics of Node.js such as global and process objects, modularization, Node Package Manager (NPM), eventing, filesystem, and stream techniques.
- **Building a Web Service using Node.js :** Build Web Service using Node.js natively and through Hapi framework, build a simple RESTful API.
- **Deploy Web Service :** Know and use Amazon EC2, operate Amazon EC2 via SSH, run RESTful API on Amazon EC2.
- **Consuming and Testing RESTful APIs using Postman :** Installing Postman. Consume the RESTful API for testing purposes and write automated test scenarios using Postman.
- **Hapi Plugin and Data Validation :** Using the Plugin system on Hapi to manage source code to make it easier to maintain. In addition, taught about applying Data Validation techniques using Joi to ensure the data sent by the client is as expected.

- **The database uses Amazon RDS** : Using a database as a persistent data store. This module uses PostgreSQL as the database that is installed both locally (development) and in production (using Amazon RDS).
- **Authentication and Authorization** : Implement authentication techniques to validate users consuming the RESTful API. And apply authorization techniques to validate the resources that the user is entitled to.
- **Message Broker with Amazon MQ** : Uses Message Broker technology to handle requests asynchronously. This module uses RabbitMQ as a Message Broker locally or in production (using Amazon MQ).
- **Caching using Amazon ElastiCache** : Uses memory caching technology to provide fast response in displaying resources. This module uses Redis as memory caching locally and in production.
- **Automation Test** : Implemented automation code on Back-End RESTful API project for 2 weeks using Jest framework with TDD method.
- **Clean Architecture** : Develop a 2-weeks Back-End project with software architecture through clean architecture principles.
- **Continuous Integration and Continuous Deployment** : Deliver or deploy the application quickly and safely for 2 days with github actions and using CI / CD methods.
- **Security** : Implement security on applications and servers for 4 days using NGINX by setting limit access requests.

DICODING

Front end Developer

Bandung, ID

Jun 2022 - Aug 2022

- **Introduction to HTML and CSS** : Understanding the function of HTML in websites and organizing content with existing semantic elements, understanding the role of CSS in website creation and knowing how to write basic CSS syntax by applying some basic styling to HTML elements.
- **Responsive Layout using Flexbox** : Understand about using flexbox as a basic layout to build a web-based calculator. Flex is a new technique in developing responsive layouts, and can be combined with query media to make it more optimal when accessed using mobile devices.
- **JavaScript Basic and DOM Manipulation** : Understand the role of JavaScript in website development, write basic JavaScript syntax, understand basic JavaScript such as statements, comments, variables, data types, etc. Knowing the Browser Object and its events, and manipulating the DOM using JavaScript.
- **Web Storage** : Find out the type of storage available on the web by trying to use localStorage to store the calculation history of the calculator project.
- **Web Components** : Learn to build reusable and encapsulated website UI components with custom elements and shadow DOM.
- **Package Manager** : Learn to add, remove, and use JavaScript packages available in NPM, as well as differentiate between the roles of development dependencies and production dependencies.
- **Bundle JavaScript with Module Bundler** : Learn to implement module bundler as a build tool for web applications to bundle files of JavaScript files into one static file that is ready for release and optimized.
- **Asynchronous JavaScript Request** : Learn to transact data through the HTTP/HTTPS protocol using the Fetch API, either using the GET, POST, PUT, or DELETE methods.

EDUCATION

Universitas Bengkulu

Bachelor Degree / S1 Geofisika

Bengkulu, ID

Aug 2018 - Dec 2022

- GPA 3.60
- During my geophysics course, I learnt about programming using Python, geophysical data analysis, scientific computing, image processing, and the use of GIS (Geographic Information System). Although there is no specific class called MERN, my critical thinking in these areas can be applied in MERN technology or web technology in general.

SKILLS & INTERESTS

Technical Skills: Html | CSS | Javascript | Mysql | NodeJS | MongoDB | PostgreSQL | ReactJs | VueJs | Nodejs | ExpressJs | REST API | JSON | Bootstrap | Tailwind | Git/Github | NPM | Webpack | Responsive web | Python | OOP

Soft Skills : Communication | Critical Thinking | Creative

Interests: Fullstack Web Developer, Backend Developer, Frontend Developer

Languange: Bahasa Indonesia (Proficient), English (Beginer)

SKILLS & INTERESTS

React-Ecommerce

Aug 2022 - Oct 2022

Detail : React-Ecommerce is an e-commerce website built on the MERN stack, offering an interactive and responsive online shopping experience.

Tools : MongoDB, ExpressJS, ReactJs, NodeJS, Mongoose, Redux, Stripe, AntDesign, Bootstrap

Github : <https://github.com/hikio-17/react-ecommerce.git>

Point Of Sale

Jul 2022 - Sep 2022

Detail : POS (Point of Sale) with MERN stack (MongoDB, Express, React, Node.js) provides efficient sales transaction management and intuitive user interface, with seamless integration between MongoDB, Express, React, and Node.js.

Tools : MongoDB, ExpressJS, ReactJs, NodeJs, Mongoose, Redux, AntDesign

Github : <https://github.com/hikio-17/pos-stackmern.git>

Forum API

March 2023

Detail : Forum API built using Node.js, Hapi, and PostgreSQL is a system that provides an application programming interface for managing online forums. By using these technologies, this API can integrate and manage user data, posts, comments, and provide functions for secure authentication and authorisation.

Tools : NodeJs, Hapi, PostgreSql, JWT, Jest, Postman

Github : https://github.com/hikio-17/ForumApi_V2.git

Potman : <https://documenter.getpostman.com/view/20149138/2s93zB51po>

OpenMusic API

Jan 2023 - Feb 2023

Detail : OpenMusic API is a project that provides an application programming interface to manage the features of adding songs to playlists, managing albums, sharing playlists, and authentication and authorisation systems. Built with Node.js and PostgreSQL, OpenMusix API enables easy integration into applications for music collection management, user interaction, and data security.

Tools : NodeJs, PostgreSQL, PostgreSql, Postman, JWT, Hapi

Github : https://github.com/hikio-17/Tugas03-OpenMusicApp_V3.git

Postman : <https://documenter.getpostman.com/view/20149138/2s93zB51pp>

Laundry API

June 2023

Detail : Laundry API is a RESTful API-based application used to manage laundry operations. It allows users to perform CRUD (Create, Read, Update, Delete) operations on customer and order entities, and provides authentication using JSON Web Tokens (JWT) to protect access to the API.

Tools : NodeJs, ExpressJs, Sequelize, MySql, Swagger, Postman, Winston, JWT

Github : <https://github.com/hikio-17/LAUNDRY-API.git>

Postman : <https://documenter.getpostman.com/view/20149138/2s93sZ8EjA>

CarRented API

June 2023

Detail : Travel API is a project that aims to provide backend services for managing travel applications.
This API allows users to register, authenticate and manage car availability at each company.

Tools : NodeJs, ExpressJs, Sequelize, MySql, Swagger, Postman, JWT

Github : <https://github.com/hikio-17/Authentications-and-Migrations.git>

Postman : <https://documenter.getpostman.com/view/20149138/2s93sXbtzt>