

MUHAMAD ZAHNAN YUDHA

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I am eager to learn new things that can bring beneficial innovations. My interest in the IT field, particularly in coding, has driven me to continuously learn and master several programming languages to know how a coder makes a program that can be used by a wide audience.

EDUCATION

UNIVERSITAS DINAMIKA BANGSA

Bachelor of Computer Science – Computer Science

2020 – 2024

- UNAMA Programming Community.
- Best Graduate At Dicoding X Kampus Merdeka Cycle 5.
- Grade : 3.93 / 4.00.
- Thesis: "Front-End and Back-End Design of the Nusantara Website: 'Jelajahi Ragam Budaya Indonesia' Proyek Kampus Merdeka Mitra Dicoding Academy Dicoding Academy (PT. Presentologics)".

EXPERIENCE

Development of an Academic Information System (SIKAD) Website for STIT Al-Falah – Cipta Karya Teknologi Nusantara (Owner)

Project Manager

December 2024 – Present

- Collaborate with stakeholders to define project objectives and scope.
- Identify and document system requirements, user needs, and functional specifications.
- Develop a detailed project plan, including timelines, milestones, and deliverables.
- Allocate resources and define team roles and responsibilities.
- Lead a multidisciplinary team of developers, designers, and testers.
- Facilitate communication between stakeholders and team members.
- Recommend appropriate technologies, frameworks, and tools for the project.
- Monitor the progress of front-end and back-end development activities.
- Organize training sessions for campus staff and faculty on using the system.
- Ensure all project deliverables, technical documents, and user manuals are complete and accessible.

PT. Perdana Karya Teknologi (Employee)

Fullstack Developer

December 2023 – December 2024

- Full-stack development, including database design, back-end logic, and front-end implementation.
- Collaborated with stakeholders to ensure project requirements were met.
- Utilized frameworks and tools such as Laravel, JavaScript, HTML, CSS, Bootstrap and jQuery.
- Focused on delivering scalable and secure web solutions.

below this is an application that I have been developing with PT. Perdana Karya Teknologi as a Fullstack Developer :

1. Online Tax and Levy API for North Bengkulu

- Develop and integrate APIs for managing regional taxes and levies.
- Create authentication and authorization systems for the application's users.
- Optimize the user interface using HTML, CSS, and Bootstrap to ensure user-friendliness.

2. Personnel Information System for South Bengkulu Regency

- Design and develop a web-based personnel management system using Laravel.
- Build an efficient employee data search system using JavaScript and jQuery.
- Generate employee reports using HTML and CSS templates with a responsive design.

3. Internal Personnel System for Health Services in North Bengkulu

- Develop a personnel management system for health service agencies using Laravel.
- Implement notification features for updating staff with the latest data.
- Design an informative and user-friendly dashboard using Node.js and Bootstrap.

4. School Management Application for Kepahiang

- Develop a school data management application with features for managing student and teacher records.
- Create a responsive class schedule management feature.
- Build a system for generating financial and student achievement reports.

5. UMKM Application for South Bengkulu

- Develop a web-based application to support UMKM (Small and Medium Enterprises) in South Bengkulu using Laravel.
- Build features for recording transactions and generating financial reports for UMKM.
- Integrate payment systems to facilitate transactions.

6. Puskesmas Asset Management for Kaur Regency

- Build an asset management system for Puskesmas (community health centers) using Laravel and SQL databases.
- Develop features for tracking medical equipment and other health assets.
- Generate maintenance and usage reports with an intuitive user interface.

7. Bappeda Bengkulu Tengah

- Develop a web-based planning and development evaluation application using Laravel.
- Build modules for generating reports to support Bappeda's administrative needs.
- Design dynamic views with HTML, CSS, and JavaScript for development planning data.

8. Tourism Application for Kepahiang Regency

- Build a web-based application to promote tourism in Kepahiang.
- Develop a booking and reservation system for tourist attractions using Laravel.
- Create engaging multimedia content to attract website visitors.

9. UMKM Information System for Kaur Regency

- Design a system for displaying UMKM information with an attractive interface.
- Develop transaction recording and reporting features for UMKM data.
- Build an analytical dashboard for UMKM to monitor their business growth.

10. Kota Jambi Bahagia

- Develop a web-based application to support the Kota Jambi Bahagia program using Laravel.
- Create features for reporting citizen happiness using data input forms and analysis tools.
- Implement notification systems based on user roles and access rights.

11. PPDB (New Student Admission) for Bengkulu Tengah

- Develop a PPDB system for new student registration using Laravel and JavaScript.
- Build features for data registration and verification with strong security systems.
- Design modules for generating admission statistics and reports.

12. PPDB (New Student Admission) for Kaur Regency

- Develop a PPDB application for new student registration using Laravel.
- Build automated data validation features to streamline the registration process.
- Design a responsive user interface using HTML, CSS, and Bootstrap for ease of use.

13. PPDB (New Student Admission) for Kepahiang

- Build a PPDB application with features for student data input and registration verification.
- Develop modules for generating reports and statistics on student admissions.
- Optimize user interactions using jQuery and JavaScript for a seamless experience.

14. Puskesmas Application for South Bengkulu

- Develop a Puskesmas management system covering patient and medical inventory management.
- Build a reporting system for medical activities and health monitoring using Laravel.
- Design an interface that is easy to use for medical staff and administrators.

15. Sapa Inspektorat Application for Rejang Lebong Regency

- Develop a web-based internal audit and inspection application using Laravel.
- Build features for reporting findings and recommendations based on inspections.
- Design a system for managing inspection reports and follow-up actions.

16. Money Evaluation Information System for Kaur Regency

- Build a financial evaluation system for the region using Laravel and JavaScript.
- Develop modules to monitor regional revenue and expenditure in real-time.
- Generate financial evaluation reports with easy-to-understand data visualizations.

17. Money Evaluation Information System for Bengkulu City

- Develop a financial evaluation application for Bengkulu City using Laravel and Node.js.
- Build a dashboard to monitor and evaluate the city's financial flows efficiently.
- Design financial reporting modules for transparency in the city's budget.

18. Money Evaluation Information System for Rejang Lebong Regency

- Build an application for evaluating and monitoring regional finances in Rejang Lebong.
- Develop a system to manage budgets and monitor expenditures.
- Create financial evaluation reports with data visualization features.

Front-End Web and Back-End Development student in the Independent Study Program – Kampus Merdeka x Dicoding Academy Cycle 5

Fullstack Developer

Agustus 2023 – January 2024

- **Completed a comprehensive curriculum** in **Front-End and Back-End Web Development** as part of the Kampus Merdeka x Dicoding Academy Cycle 5, gaining expertise in key technologies such as **HTML, CSS, JavaScript, PHP, Laravel, and MySQL**.
- **Developed and deployed full-stack web applications**, implementing front-end interfaces with responsive designs and robust back-end systems for seamless user experiences and data management.
- **Worked on real-world projects** that required collaboration, problem-solving, and the application of web development best practices, ensuring clean, maintainable code and efficient workflows.
- **Gained practical knowledge in version control**, using **Git** for source code management and collaborating effectively with peers and mentors.
- **Built proficiency in debugging and optimizing code**, addressing performance issues, and implementing security measures for web applications.

- **Complete the capstone project** Nusantaraku : “Jelajahi Ragam Budaya Indonesia”.

Application Front-End and Back-End Design of the Nusantaraku Website: ‘Jelajahi Ragam Budaya Indonesia’ Proyek Kampus Merdeka Mitra Dicoding Academy Dicoding Academy (PT. Presentologics) – Capstone Project.

Fullstack Developer

September 2023 – January 2024

- **Website Development:** Led the development of the front-end and back-end of the **Nusantaraku Website**, aimed at showcasing Indonesia's diverse cultures. Used **Laravel** to handle back-end logic and **HTML, CSS, and Bootstrap** to design a responsive, user-friendly interface.
- **Interactive Culture Showcase:** Created interactive features to explore the various cultures, traditions, and histories of Indonesia. Incorporated **JavaScript** and **jQuery** to create smooth, engaging animations and dynamic content updates for users.
- **API Integration:** Integrated APIs to fetch and display cultural information and multimedia, including images, videos, and articles, ensuring the website offers rich, multimedia-based content that is easy for users to explore.
- **Admin Panel:** Developed a comprehensive admin panel using **Laravel** to manage cultural content, including the ability to add, edit, and delete articles, images, and multimedia for different cultural regions of Indonesia.
- **Search and Filter System:** Built a powerful search and filter system using **JavaScript** and **Laravel** to allow users to find specific cultural topics, regions, and categories easily.
- **User Authentication and Profile Management:** Implemented a secure user authentication system, allowing users to create and manage profiles, save favorite articles, and contribute content. This was achieved using **Laravel's built-in authentication system**.
- **Real-Time Features with Node.js:** Integrated **Node.js** for handling real-time notifications and updates, such as user comments, activity feeds, and newly published content. This ensured a dynamic experience for users as the website's content grew.
- **Multilingual Support:** Developed a multilingual feature to allow users from different regions to access the content in their preferred language, ensuring a broader audience could benefit from the platform.
- **Responsive Design:** Ensured that the website's layout was fully responsive, adapting seamlessly across various devices and screen sizes. This was achieved using **Bootstrap** and custom **CSS** styling.
- **SEO and Performance Optimization:** Focused on optimizing the site for search engines (SEO) and ensuring fast load times. Used **Laravel caching** and **image optimization techniques** to improve website performance.
- **User Feedback System:** Developed a feedback and rating system where users could rate and comment on articles, which helped build a community around the cultural exploration platform.
- **Data Security:** Implemented data security features, including input validation, encryption for sensitive data, and secure storage practices to ensure user data was protected.

SPP Payment Application for SMK Fania Salsabilla – UNIVERSITAS DINAMIKA BANGSA (INTERN)

Fullstack Developer

February 2023 – August 2023

- **Developed the main system:** Built a comprehensive payment system for SPP (School Operational Fund) at SMK Fania Salsabilla using **Laravel, HTML, CSS, JavaScript, and Bootstrap** to ensure an intuitive user interface for both administrators and students.
- **Payment Gateway Integration:** Integrated an online payment gateway that allows students to pay their SPP fees through various payment methods, providing a secure and seamless transaction process.
- **WhatsApp Gateway Integration:** Implemented the WhatsApp gateway API to send automated payment reminders, receipts, and notifications directly to the users' WhatsApp numbers. This ensures efficient communication with students regarding their payment status and deadlines.
- **Asynchronous Background Jobs:** Utilized **Laravel's background job functionality** to handle tasks like payment processing, reminder sending, and status updates asynchronously. This improves performance by offloading time-consuming tasks from the main application flow.
- **Admin Panel:** Developed an admin panel for monitoring payments, managing student data, generating reports, and setting up SPP fee structures. This dashboard is built with a dynamic and responsive design using **Bootstrap** and custom **JavaScript** for real-time updates.
- **Student Dashboard:** Designed a student-facing dashboard where students can view their payment history, outstanding balances, and upcoming payment deadlines. Integrated real-time updates using **JavaScript** and **jQuery** to provide a smooth user experience.

- **Automated Notifications:** Configured automated email and WhatsApp notifications to keep students informed about their payment status, overdue payments, and upcoming deadlines. This ensures students never miss their payment deadlines.
- **Data Security and Validation:** Implemented strong data validation rules to ensure that payment information and student records are secure. Applied encryption and secure database storage practices to protect sensitive user data.
- **Reporting and Analytics:** Created reporting tools for administrators to track payment trends, student payment history, and outstanding amounts, helping to manage finances efficiently. These reports are presented in a clean and accessible format using HTML, CSS, and JavaScript charts.
- **Real-Time Data Processing:** Integrated real-time data processing with Node.js to handle user interactions instantly and update payment status across multiple interfaces, ensuring that both the admin and student dashboards reflect the most up-to-date information.
- **Performance Optimization:** Focused on optimizing the performance of the application by leveraging Laravel's caching mechanisms and asynchronous background jobs to handle heavy tasks like sending bulk notifications without affecting user experience.

Machine Learning Consultant (Freelancer)

Machine Learning Engineer

2024 – Present

- **Developed a machine learning program** to assess and compare the accuracy of different machine learning algorithms and models.
- **Implemented multiple models** using techniques like decision trees, K-NN, and neural networks to determine the best-performing method for a given dataset.
- **Optimized model performance** by fine-tuning hyperparameters and evaluating results using cross-validation, ensuring the most accurate and efficient model for prediction tasks.

Web Developer (Freelancer)

Fullstack Developer

2022 – Present

- **Developed custom websites** for clients, handling both front-end and back-end tasks, using technologies such as **Laravel, HTML, CSS, JavaScript, jQuery, and Bootstrap** to create responsive, user-friendly interfaces and robust back-end functionality.
- **Collaborated with clients** to understand their business requirements, translating them into tailored web solutions, while ensuring timely project delivery and high client satisfaction.
- **Managed full project lifecycles**, including initial design, development, testing, deployment, and ongoing maintenance, while implementing best practices for performance optimization and security.
- **Provided technical support and troubleshooting** for existing websites, improving functionality and resolving issues to ensure a seamless user experience.
- **Worked with APIs and third-party services** to integrate features such as payment systems, social media sharing, and data management, enhancing the functionality and reach of client websites.

SKILLS

Technical Skills:

- **Web Development**
- **Laravel**
- **Git & Github**
- **Teamwork**
- **Time Management**
- **Front-End and Back-End Development**
- **Effective Communication**
- **Critical Thinking**
- **PHP**
- **Javascript**
- **Jquery**
- **Bootstrap**
- **Tailwind CSS**
- **HTML**

- CSS
- SASS
- Python
- C#
- Responsive Web Design
- Hapi.JS
- Structured Query Language (SQL)
- NODE.JS
- Microsoft Office (Excel, Power Point, Word, SQL Server)

Languages:

- Indonesian
- English

WORKSHOP / TRAINING / CERTIFICATE

Dicoding Best Graduate Certificate – Kampus Merdeka X Dicoding Academy Cycle 5

Kampus Merdeka X Dicoding Academy Cycle 5

AUGUST 2023 – December 2023

- **Awarded as the Best Graduate** in the **Dicoding Academy Front-End Web and Back-End Development program**, recognizing outstanding performance and exceptional project completion in the course.

TOEFL Certificate (Score: 553) – Universitas Dinamika Bangsa

Unama Toefl

January 2024

- Achieved a score of **553** in the **TOEFL** exam, demonstrating a strong command of English proficiency in listening, reading, writing, and speaking, suitable for professional and academic environments.

MySkill ShortClass: Introduction to Back-End – MySkill

Myskill - Bootcamp

May 2023

- Completed the **Introduction to Back-End Development** course by **MySkill**, gaining foundational knowledge in building server-side applications, databases, and APIs using modern back-end technologies

Dicoding Career Path as a Software Developer – Dicoding Academy

Dicoding Academy - Bootcamp

October 2023

- Completed the **Dicoding Career Path for Software Development**, gaining comprehensive insights into the professional journey of a software developer, with practical skills in front-end and back-end development.

Basic Programming Logic – Dicoding Academy

Dicoding Academy - Bootcamp

August 2023

- Completed **Dicoding's Basic Programming Logic** course, learning the foundational concepts of programming logic, flow control, and problem-solving techniques to apply in software development.

Certiport IT Specialist: Artificial Intelligence – Certiport

Certiport - Bootcamp

February 2024

- Earned the **Certiport IT Specialist** certification with a focus on **Artificial Intelligence**, gaining a deep understanding of AI concepts and applications in various industries.

Dicoding Front-End Web Development Fundamentals – Dicoding Academy

Dicoding Academy - Bootcamp

September 2023

- Completed the Fundamentals of Front-End Web Development course on Dicoding, mastering core front-end technologies such as HTML, CSS, and JavaScript to build interactive websites.

Dicoding Front-End Web Development for Beginners – Dicoding Academy

Dicoding Academy - Bootcamp

September 2023

- Achieved certification in **Front-End Web Development for Beginners** through **Dicoding**, learning how to build responsive and user-friendly web pages using modern web technologies.

Dicoding Front-End Web Expert – Dicoding Academy

Dicoding Academy - Bootcamp

November 2023

- Completed **Dicoding's Front-End Web Expert** program, gaining advanced expertise in building sophisticated and performance-optimized front-end applications with **Javascript Modular, Components, Node.JS, Webpack, Netlify, CI/CD, etc** and modern JavaScript practices.

Dicoding Basic Web Programming – Dicoding Academy

Dicoding Academy - Bootcamp

August 2023

- Completed the **Basic Web Programming** course on **Dicoding**, learning the fundamental concepts of web programming, including creating dynamic websites using **HTML, CSS**, and **JavaScript**.

Dicoding Basic Programming – Dicoding Academy

Dicoding Academy - Bootcamp

August 2023

- Earned a certificate in **Basic Programming** from **Dicoding**, gaining a solid understanding of programming fundamentals, algorithms, and data structures to build efficient software.

Dicoding Basic JavaScript – Dicoding Academy

Dicoding Academy - Bootcamp

September 2023

- Completed **Dicoding's Basic JavaScript** course, gaining proficiency in **JavaScript** fundamentals, including variables, loops, functions, and object-oriented programming concepts.

Dicoding Basic Git with GitHub – Dicoding Academy

Dicoding Academy - Bootcamp

August 2023

- Achieved certification in Basic Git with GitHub, mastering the fundamentals of version control, managing repositories, and collaborating on code using Git and GitHub.

Dicoding Back-End for Beginners with – Dicoding Academy

Dicoding Academy - Bootcamp

November 2023

- Completed the **Back-End for Beginners using Hapi.js** course on **Dicoding**, learning to build server-side applications, APIs, and handling databases with **Hapi.js**, a powerful Node.js framework.