



# JOSIEL MARK MIEL SEROY

Pagadian City, Zamboanga Del Sur

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## TECHNICAL SKILLS

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- **Frontend Development:** HTML, CSS, JavaScript, TypeScript, Tailwind CSS, Bootstrap, React Js, Redux
- **Backend Development:** Node.JS, Express JS, MySQL, Sequelize, Dialogflow, Socket.io, Jest JS
- **Tools:** Git, GitHub, Visual Studio Code, Heidi SQL, MySQL Workbench, XAMPP, Git Bash, Postman

## WORK EXPERIENCE

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### Freelance Full-Stack Web Developer (January 2023 – Present)

- Collaborate with clients to understand project requirements, propose solutions, and provide development timelines.
- Design, develop, and deploy custom web applications for academic (capstone/thesis) and business projects.
- Specialize in React.js, Tailwind CSS, Node.js, Express.js and MySQL, ensuring efficient and scalable web applications.
- Implement chatbot solutions using Dialogflow and OpenAI API to enhance user interaction.
- Develop and integrate payment gateways (e.g., PayPal) into web-based applications.
- Optimize application performance, security, and database management for seamless user experience.
- Deliver high-quality, well-documented code and provide ongoing maintenance and support.

## PROJECTS

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**Student Management & Grading Portal** – Developed a full-stack grading system where students can log in, view grades, and download records, while instructors manage and input student performance data. Implemented an admin dashboard to manage students, instructors, courses, subjects, school years, and class assignments. Built using React.js, Redux, Tailwind CSS, Node.js, Express.js, and MySQL.

**HealthCare Medical Records System with Socket.IO & Speech-to-Text** – Developed a web-based platform with real-time updates using Socket.IO and speech-to-text functionality powered by Assembly AI. The system provides instant access to patient records, streamlines appointment scheduling, and enhances data analytics for healthcare professionals. It allows efficient management of patient data, lab reports, and prescriptions, with voice-to-text capabilities enabling faster and more accurate documentation for doctors. Built with React.js, Redux, Tailwind CSS, Node.js, Express.js, MySQL, Assemble AI, and Socket.IO.

**Pagadian Slaughter Management System with Socket.IO** - Developed a web-based application to automate record-keeping for Pagadian City's slaughterhouse. The system tracks animals brought for slaughter, manages transactions, and automatically generates demand letters for unpaid bills, streamlining the payment collection process. Built with React.js, Redux, Tailwind CSS, Node.js, Express.js, MySQL, and Socket.io.

**Senior High School Strand Recommender** – Develop a web application designed to provide personalized academic strand recommendations to senior high school students based on their grades and strand conditions. The system analyzes student performance data and offers tailored recommendations, helping students make informed decisions about their academic path. Built with React.js, Tailwind CSS, Node.js, Express.js, MySQL, and Socket.io.

**WMSU-ESU Document Tracker System with Chatbot (Thesis Project)** - Developed a web-based application for my thesis project aimed at streamlining document tracking across the 12 External Studies Unit (ESU) campuses of WMSU. The system utilizes QR Code technology (Model 2) to track the movement of documents from faculty to administrative offices. Real-time tracking, arrival confirmation, and workflow automation ensure efficient, transparent, and accountable document processing. The application also integrates a chatbot powered by Dialogflow for user queries and tracking updates, improving overall user experience. Built with React.js, Redux, Tailwind CSS, Node.js, Express.js, MySQL, and Socket.io, the system features secure authentication, document upload and download capabilities, real-time notifications, detailed document history logs, and customizable routing for document processing. The dashboard provides insightful analytics and the ability to generate and download reports, enhancing workflow management.

**DOH Pass Slip System (Internship Project)**- Developed a web application during my internship for the Department of Health to manage pass slips. The system provides real-time updates and allows authorized personnel to generate and manage pass slips for both personal and official purposes, ensuring efficient tracking and monitoring of movement within the organization. Built with React.js, Bootstrap, Node.js, Express.js, MySQL, and Socket.io.

**Tara Kabataan Event Management System with Chatbot** - Developed a web application for the Tara Kabataan Organization to streamline event planning, scheduling, and registration. The system features an intuitive event calendar, allowing users to easily browse upcoming events, register for free and paid events, with discounted for selected events. Integrated with PayPal for seamless payment processing, the system also includes chatbot support for user queries, enhancing engagement and customer service. Built with React.js, Tailwind CSS, Node.js, Express.js, MySQL, Dialogflow and Socket.io.

**CERTIFICATIONS**

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- Presented Tara Kabataan Event Management at the 55th Araw ng Pagadian's 2nd ICT Summit 2024
- Champion - Web Programming Competition, CS.IO 2024, themed "Innovate and Illuminate."
- Developed the DOH Pass Slip System for the Provincial DOH Office of Zamboanga del Sur

**EDUCATION**

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**Tertiary**  
**Bachelor of Science in Computer Science (2020-2025)**  
Western Mindanao State University – Pagadian Campus

**Secondary**  
**Senior High School – Humanities and Social Sciences (HUMSS) (2018 – 2020)**  
Poblacion Malangas, Zamboanga Sibugay | With Honor

**Primary**  
**Malungon Elementary School (2007 – 2014)**  
Malungon, Malangas, Zamboanga Sibugay | 2nd Honor

