

DYNE CHRISTELLE H. SOMBERO

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EDUCATION

Notre Dame of Marbel University, Philippines

Bachelor's of Science in Computer Science

Koronadal, Ph

Sept. 2022- May 2025

- Award:** Best Student Research in our Research Forum 2025 (Data Science and Algorithm Category). Thesis on "Improving Prediction of Infectious Disease Outbreaks using Attention-based Long Short-term Memory (LSTM) Model with Honey Badger Optimization for Hyperparameter Tuning".

WORK EXPERIENCE

Frontend Developer & Automation Engineer (Project-Based Contract)

September 2025 - November 2025

Maggymaid Company / Remote (US-Based Client)

- Developed and deployed full-stack web apps using React (frontend) and Express.js API (backend) with MongoDB.
- Delivered tailored solutions for 3+ clients, increasing performance and usability by 30%.
- Built secure RESTful APIs with Express.js, handling 100+ daily user requests with JWT authentication.
- Integrated Cloudinary for image upload, optimization, and storage, enhancing media performance by 40%.
- Deployed apps to Vercel and Render with 99.9% uptime, managing source control with 100+ Git commits.

Freelance Full Stack Developer

May 2021-July 2025

Fiverr / Remote

- Developed and deployed full-stack web apps using React (frontend) and Express.js API (backend) with MongoDB.
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Full-Stack Developer (OJT / Internship)

May 2024- July 2024

Provincial Government of South Cotabato - Information Technology Division

- Developed a full-stack data banking system using ASP.NET (C#), improving data retrieval speed by 30%.
- Designed and optimized SQL queries, reducing report generation time by 40%
- Collaborated in a 5-person Agile team, contributing to 90% of front-end UI components and backend integration.

PROJECTS

SEO Automization for Wordpress

n8n

- Built end-to-end automation workflows in n8n to create, update, and optimize WordPress posts using the WordPress REST API.
- Automated full content lifecycle: fetching existing posts, enhancing SEO, updating featured images, and republishing.
- Reduced manual posting workload by 90% through advanced workflow design, error handling, and modular automation steps.

Admin Management System (CRM)

React.js | Typescript | Tailwind CSS

- Developed a full admin-facing CRM web application, building all core pages including dashboard, leads, customers, bookings, messaging, services, teams, availability, and settings.
- Implemented complex data tables with search, filtering, sorting, pagination, and bulk actions to manage leads and customers efficiently.
- Built reusable UI components and layouts using React, TypeScript, and Tailwind CSS to ensure consistency and scalability across the admin system.
- Integrated frontend pages with REST APIs to display and manage real-time data for leads, bookings, calendars, and team assignments.

Real Estate Website UI

Next.js | Typescript | Tailwind CSS

- Designed and implemented a fully responsive front-end interface compatible with mobile, tablet, and desktop devices, reducing layout breakpoints by 80% compared to initial wireframes.
- Built and styled 20+ reusable components (property cards, feature badges, blog previews, testimonials) with TailwindCSS, streamlining development and ensuring design consistency.
- Optimized accessibility and SEO readiness, achieving 97%+ Lighthouse scores and enhancing user-friendly experience.

E-commerce

MongoDB | Express JS | React.js | Node.js

- Engineered a full-stack e-commerce system supporting real-time checkout and handling 100+ products.
- Integrated REST APIs, MongoDB, and frontend optimizations to reduce load time by 60%.
- Designed user authentication system with JWT and secure password hashing, protecting user data for over 100 test user.

PEMO (Provincial Environment and Management Office) Data Banking

ASP.Net | C# | Microsoft SQL Server | Azure

- Migrated a legacy environmental website into a modern, searchable SQL-based web application.
- Enabled department staff to access data 70% faster, improving report creation and policy decision-making.
- Implemented CRUD features with zero major bugs reported during testing phase.

Digital Planner

Figma

- Designed a planner app prototype tested by 10+ users, with a usability satisfaction rating of 92%.
- Reduced navigation time by 40% using smart UI/UX layout principles like baseline mockups.
- Incorporated 4 core features (calendar, task tracking, reminders, personalization) based on user needs.

Prediction Model

Python | Google Colab | KNIME | VisualCrossing | GoogleEarthEngine

- Developed an LSTM-based AI model in Python (TensorFlow/Keras) with 85% accuracy for dengue outbreak prediction using historical health and climate data. Applied Honey Badger Optimization (MATLAB) to tune hyperparameters, reducing model training time by 25%, and processed 12,000+ data points using KNIME.

SEMINARS

Philippine Society of Information Technology Students Regional Convention

Gensan, Ph.

- Represented myschool and collaborated withfellowITstudentsfromdifferentregions, fostering professional connections and sharing best practices.

April 28-29 2023

SKILLS

Languages: C#, JavaScript, TypeScript

Web Technologies & Tools: React.js, Next.js, Node.js, ASP.NET, HTML5, CSS3, Tailwind CSS, Express.js

Databases & Cloud Platforms: Microsoft SQL Server, MongoDB, Azure, AWS, Vercel

AI, Data & Analytics Tools: KNIME, Google Colab, Google Earth Engine, LLMs, ML tools, n8n

CI/CD & Version Control: Git, GitHub, GitHub Desktop